



3024-119-SEQ.ST25
SEQUENCE LISTING

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<120> HIGH EFFICIENCY GENE TRANSFER AND EXPRESSION IN MAMMALIAN CELLS BY A MULTIPLE TRANSFECTION PROCEDURE OF MAR SEQUENCES

<130> 3024-119

<140> 10/595,495
<141> 2006-04-24

<150> PCT/EP2004/011974
<151> 2004-10-22

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<151> 2003-10-24

<160> 241

<170> PatentIn version 3.3

<210> 1
<211> 320
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(320)
<223> MAR of human chromosome 1, nt from 36686 to 37008

<220>
<221> misc_binding
<222> (1)..(320)
<223> MAR of human chromosome 1, genomic contig; 36686 to 37008

<400> 1
ttatattatg ttgttatata tattatatta tgttattaga ttatattatg ttgttatatt 60
atataataat attatattat atattatata ttatattata taatatataa taatattata 120
taattatata ttacattata taatatataa taatattata taattatata ttacattata 180
taatatataa taatattata taataatata taattatata atatataata atattatata 240
atattatata atattatata atatataat atataataat atatattata ttatataata 300
gtatataata ttatataata 320

<210> 2
<211> 709

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<212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(709)
 <223> MAR of human chromosome 1, nt from 142276 to 142984

<220>
 <221> misc_binding
 <222> (1)..(709)
 <223> MAR of human chromosome 1, genomic contig; 142276 to 142984

<400> 2
 tacaatatat tttctattat atatatttg tattatatat aatatacaat atattttcta 60
 ttatataaa tatattttgt atttatata ttacaatata ttttgtatta tataatatat 120
 aatacaatat ataatatattt gtattatata ttatataata caatatatta tatattgtat 180
 tatatattat atataatact atataatata ttgttattata tattatatat aatactatat 240
 aatatatttt atttatattt atatataata caatatataa tatattgtat tataatacaa 300
 tgtattataa tgtattatatt tgtattatata atttatata atacaatata taataatata 360
 ttataatata taataataat ataataataat aataatatat attgttattat atattatata 420
 atacaatata taatatattg tattatatat atttttattac atataatata taatacatta 480
 tataatatat tttgttattat atataatata ttttattatg tattatagat aatatatttt 540
 atttatattat atatataata caatatataa tatattttgt attgttata atatataata 600
 caatatataa tatattgtat tatatataat attaatatat tttgttattat atatttatat 660
 tttatattat aattatgttt tgcattatatt atttcattat atatataacc 709

<210> 3
 <211> 409
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(409)
 <223> MAR of human chromosome 1, nt from 1368659 to 1369067

<220>
 <221> misc_binding
 <222> (1)..(409)
 <223> MAR of human chromosome 1, genomic contig; 1368659 to 1369067

<400> 3
 tacacataaaa tacatatgca tataatattt gtatatacac ataaatacat atgcatacac 60
 attatgtata tatacataaaa tacatatgca tatacattat gtatatacac ataaatacat 120
 atgcatacac attatgtata tatacataaaa tacatatgca tatacattat gtatatacac 180

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| | |
|---|-----|
| ataaaatacat atgcataaac attatgtata tatacataaa tacatatgca tatacattat | 240 |
| gtatatatac ataaaatacat atgcataat tatatacata aattatatta tatacataat | 300 |
| acatatacat atattatgtg tatatacata taaatacata tacatatatt atgtgtat | 360 |
| atacatgata catatacata tattatgtat atatatacat aaatacata | 409 |
| | |
| <210> 4 | |
| <211> 394 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(394) | |
| <223> MAR of human chromosome 1, genomic contig; 2839089 to 2839482 | |
| | |
| <400> 4 | |
| tatgtatata tacacacata tgtatatacata cacacatatg tatatacgta tatatgtata | 60 |
| tatacacaca tatgtatata cgtatatacg tatatacata cacatatgta tatacgta | 120 |
| tatgtatata tacacacata tgtatatacg tatatacgta tatatacaca catatgtata | 180 |
| tatgtatata tacacacata tgtatatacg tatatacgta tatatacaca catgtgtata | 240 |
| tatatacata catatgtata tatgtatata tacacacata tgtatatacg tgtatgtata | 300 |
| tatacacaca tatgtatata tacacatata tatgtatata tacacacata ctttatata | 360 |
| cacatatata tgtatatacata cacatatgta taca | 394 |
| | |
| <210> 5 | |
| <211> 832 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(832) | |
| <223> MAR of human chromosome 1, genomic contig; 1452269 to 1453100 | |
| | |
| <400> 5 | |
| tatattacta tatatacaat atacatatta ctatatac catgtattac tatataatc | 60 |
| tactatataat attactataat atacaaaata tatattacta tatatacaat atacatatta | 120 |
| ctatatacata catatattac tatataatc tactatataat attactataat atacaaaata | 180 |
| tatattacta tatatactat atattactgt atatacaata tatattacta tatataatc | 240 |
| atatattact atatatacac tatatattac tatatacata caatataat attactataat | 300 |
| atacacaatg tatataacta tatatacaat atatattact atatatacta tatatattac | 360 |
| tatacatact atatattact ctatatac aatataatata ttacaatata tactacat | 420 |
| tactacat atctttatata ttactatata tactatataat tactgtatata acaatata | 480 |

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| | |
|--|-----|
| ttactaaata tacacaatat atattactat atatacacaat tatatatatt actatatata | 540 |
| cacattatat atgactatat atacacacta tataattac tatatacaca caatataaa | 600 |
| ctatatacac acagtataca tattactata tatacacaat atatatactt ctatataac | 660 |
| actatataatt actatataca cacaatata attactctat gtatacacta tataattac | 720 |
| tatacataca gaatataat aactatata acactatatt actatataca ctatataaa | 780 |
| ctatatgtac tataattat attatatactt ctatatactt ctatataac ac | 832 |

<210> 6
<211> 350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(350)
<223> MAR of human chromosome 1, genomic contig; 831495 to 831844

| | |
|---|-----|
| aatataataat atataaatat taatatgtat tataataat atataatatt attatattat | 60 |
| attactataat aaataatatt aatataattat attaaaatat taataatata atcatattaa | 120 |
| atattataatt aattaaatat taataatata attatattaa tatatttata tattaaacct | 180 |
| ataacatatg catatactta tttatataata acatgcattt acttatattt atatacaata | 240 |
| tatatttata tattatataa tatattataat gtattttat attatatac atatattata | 300 |
| tgtatttata tattatataat catataatata atatatttat attatataa | 350 |

<210> 7
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(386)
<223> MAR of human chromosome 1, genomic contig; 1447225 to 1447610

| | |
|--|-----|
| acatttaatt taattatata ctgctatata taattaaatc tataatctt tataactt | 60 |
| aattttttt aatttaatta tataactat atagttat atacatataat gtaatttat | 120 |
| atagtataat tatagtat atgtatataat aatgtaaat aatataatgt atatattt | 180 |
| atatactata tatttataca tatgtcttta tataactaa tatacataca catagtat | 240 |
| atgtacatata ggcataatatt ttatagtgtat tatacataca tataatgt atatgtat | 300 |
| atgtaaatata atagtacata tttaattata tggtaatata tacacatata tgtaatgt | 360 |

gtattatagt acatattttta tagtat

<210> 8
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(585)
<223> MAR of human chromosome 1, genomic contig; 4955365 to 4955949

| | | |
|---|-----|--|
| <400> 8 | | |
| atacacacat atacacatat gtacgtatat atactatata tacacacata tacacatag | 60 | |
| tacgtatata tactatatac acacacatat acacatatgt acgtatatac actatata | 120 | |
| cacacatata cacatatgta cgtatatac ctatatac acacatatac acatatgtac | 180 | |
| gtatatac tataataca cacatataca catatgtacg tatattattt atatacacac | 240 | |
| atatacacat atgtacgtat atatactata tatacacaca tatacacata tgtacgtata | 300 | |
| tatactatac atacacacat atacacatat gtacgtatat atactatata tacacacata | 360 | |
| tacacatatg tacgtatata tactatatac acacacatat acacatatgt acgtatata | 420 | |
| actatatacata cacatatgta cgtatatac ctatatac acacatatac acatatgtac | 480 | |
| acatatgtac gtatatac tataataca cacatataca catatgtacg tatataact | 540 | |
| atatacacacc atacacatac gtatatacgt acatatatac acgtat | 585 | |

<210> 9
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(772)
<223> MAR of human chromosome 1, genomic contig; 5971862 to 5972633

| | | |
|---|-----|--|
| <400> 9 | | |
| agtaaacata tatatagtaa atatatacgt tggatatacgt gtaaatatacgt atatgtgcata | 60 | |
| tatatagtgc atatatacgt tggatatacgt gtaaatatacgt agtgtatatacgt tataatgtaa | 120 | |
| atataatgtacgt aaatatacgt gtaaatatacgt tataatgtacgt atatgtaaa tataatatacgt | 180 | |
| tataatatacgt taaatatacgt tataatgtacgt atatgtaaa tataatatacgt gtaaatatacgt | 240 | |
| gtatatacgt agtaaatatacgt tataatgtacgt atatgtaaa tataatatacgt tagtataatatacgt | 300 | |
| agtaaatatacgt tataatgtacgt atatgtaaa tataatatacgt gtaaatatacgt agtaaatatacgt | 360 | |
| tataatgtacgt atatgtaaa tataatatacgt gtaaatatacgt agtaaatatacgt tataatgtacgt | 420 | |
| atataatgtacgt aatataatatacgt gtaaatatacgt tataatgtacgt atatgtaaa tataatgtacgt | 480 | |

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| | |
|--|-----|
| tatataataca ctgtatatat atagtaaata tatatacact gtatatatat agtaaatata | 540 |
| tatacactgt atatatatag taaatatata tacactgtat atatatagtat aatatatata | 600 |
| cactgtatat acatagtaaa tatataataca ctgtatatac atagtaaata tatatacact | 660 |
| gtatatacat agtaaatata tatacactgt atatacatag taaatatata tacagtgtat | 720 |
| atacatagta aatatatata cagtgtatat acatagtaaa tatataataca gt | 772 |

<210> 10
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(304)
<223> MAR of human chromosome 1, genomic contig; 6221897 to 6222200

| | |
|--|-----|
| <400> 10 atataataata tatataatta tatttatata aatatataat atatataatt atattatata | 60 |
| ttatataata tatatttatat atttatata taatatatat tatatattaa atatatatta | 120 |
| tatataataat atatattata tattaaatat atattatata tataatataat atttatata | 180 |
| atatataataa tatatattat atatattata tatttatata atatatatta tatatata | 240 |
| atatataataa tatatattat atataatata tatttatata atataatata tataatata | 300 |
| atta | 304 |

<210> 11
<211> 311
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(311)
<223> MAR of human chromosome 1, genomic contig; 9418531 to 9418841

| | |
|--|-----|
| <400> 11 tatataataat atttatataat aatattcatg tatttatata taaatattta tatattata | 60 |
| tataaatatt tatataatttta tatataaataa tttatataatt tatataataat atttatacat | 120 |
| tatataataat atttatataat tatataataat atttataat aatatttata tatttatata | 180 |
| aatatttata tatttatata tataatataat attttatata tgtatgtata atatatttt | 240 |
| tatataatgtat tgtataatata attttatata tgtatgtata atatatttata tataatataata | 300 |
| tataattttat a | 311 |

<210> 12

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<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(302)
<223> MAR of human chromosome 1, genomic contig; 15088789 to 15089090

<400> 12
atataatata tatattatat atataaatat ataaacatata tattatatat 60
aaatatatat aaatatataa catatatatt atatatataa atatataaca 120
tatatattat atatataaat atatataat atataacata tatattatat atataaataat 180
atattatata ttatatatata taatatatat aaatatataa tatatattta tatatataat 240
atatataaat atataatata tatattata tataatatat ataaatatat aatatataat 300
at 302

<210> 13
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(461)
<223> MAR of human chromosome 1, genomic contig; 6791827 to 6792287

<400> 13
tatataatat atattatata tacacatata taatatatat tatatataca cataataat 60
atatattata tatacacata tataatatat attatataca cacatataca atatattata 120
tatatacaca tatataatat atattatata tacacatata taatatatat tatatataca 180
catatataat atatattata tatacacata tataatatat attatataca cacatataca 240
atatattata tatatacaca tatgtaatat attatataca cacatataca atatattata 300
tatacacata tataatatat attatataca catatataat atatattata tatacacata 360
tataatatat attatataca cacatataca atatattata tatatacaca tataatatat 420
aatatataca catatataat atatattata tatatgcaca t 461

<210> 14
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(572)
<223> MAR of human chromosome 1, genomic contig; 163530 to 164101

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<400> 14
atattataat tatatatatt atatataatt atataaaata tatattataa ttatatatat 60
tttatataat atatataatta taattaatat attatata atatataat tataataat 120
atataatatta tatataattat atataatata tataatataat ataataatata atataatata 180
tatattatat ataataatata atatataaa tatattataa tataatataat ataataatata 240
atataatata tataatataat aatataatata ataataatata atatataaa tatataatata 300
aatatataat atatataata tataatataa tatataatata atataatata ttataatata 360
atataatataa tatataatata aatataatata atatataata taatataaa tatataatata 420
atatttaata tatttattaa ttatttgtta tatatttatt aatataatata atataatata 480
ttaatataat tataactata tattatatta taattatata tattatataat atacaattat 540
aattatataat tatataactata tataatataat at 572

<210> 15
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(357)
<223> MAR of human chromosome 1, genomic contig; 1842332 to 1842688

<400> 15
tatatctata tatatctata tatatataat atagataata tctatataata taatataat 60
aatattatct atatataata tagataatata tatctatata taatataat aatattatct 120
atataaaaa ttatattata tctatataata ttatataataaa aatattatata tatatctata 180
tataatataat ataataatcta tatataaata gataatatact atatataaa tataatataat 240
atctatatta tagatataga taatattatc tatattatag atattatcta tatataatata 300
agataatatt atctatatta tatatataat atatctataat tatctataat attatct 357

<210> 16
<211> 399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(399)
<223> MAR of human chromosome 1, genomic contig; 2309560 to 2309958

<400> 16
attatatata atatataatta tatattatata atatcaagca gcagatataa tatataatata 60
atataatata tataatataat attgtatatt atataatata taatataatata aatataatata 120

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| | |
|---|-----|
| gtatattata taatatataa tataatataat atatattgtt tattatataa tatataatat | 180 |
| ataataatata tattgtatat tatataatata ataatatatg taatatatta tgtaatatat | 240 |
| tatataatata atattatata ttatataaa tatatattat atataatata tattacataa | 300 |
| tatattacat atattacgtt atatatgtt tatattacat ataatatata acatatatta | 360 |
| cgtaatatat gtaatatatt acatataata tatacatta | 399 |

<210> 17
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(394)
<223> MAR of human chromosome 1, genomic contig; 2231759 to 2232152

| | |
|--|-----|
| <400> 17 ataataactt ataaattata tacttatata tacttataaa ttatatactt atataactt | 60 |
| ataaaattata tacttatata tacttataaa ttatatactt atataactt ataaattata | 120 |
| tacttatata tacttataaa ttatatactt atataactt ataaattata tacttatata | 180 |
| tacttataaa ttatatactt atataatt ataaattata tacttatata taattataaa | 240 |
| ttatatactt atataatt ataaattata tacttatata taattataaa ttatatactt | 300 |
| atataatt ataaattata tacatataata taattataaa ttatatacat atataattat | 360 |
| aaattatata catatataat tataaattat atac | 394 |

<210> 18
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(387)
<223> MAR of human chromosome 1, genomic contig; 7406524 to 7406910

| | |
|---|-----|
| <400> 18 tatattatata ataatatataa tataaataat atatattata tataatataat | 60 |
| aaataatata taatataataa ataatatata atatataata tataaataat atataatata | 120 |
| taacatataa ataatatata taatataaa ataatatata taatataaa ataatatata | 180 |
| taatataaa aaatatataa tatataatac atatataaat aatatattat attatataatg | 240 |
| atacataata tattatataat aatatattat atgatacata atatattata tagaatatat | 300 |
| tatatgatac ataatatatt atatagaata tattatata tacaataat attatataat | 360 |

acataatata ttatatataa tatatta

<210> 19
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(370)
<223> MAR of human chromosome 1, genomic contig; 9399572 to 9399941

<400> 19
catatataca tatatacaca tatatacaca tatatacaca catacatatg tacacatata 60
tatamacata tgatacaca tatatacaca tatatacaca catatataca catatataca 120
cacatataca cacatataca cacatataca catatataca catatataca 180
tatatacaca tatataataat atacacacat atatatacac atatatacac acatatacac 240
acatatacac acatatacat acacatatat acacatatat acatatacac acatatacat 300
acatatacac acatatacac atatatacac atatacacat atatacacac atatatacac 360
atacatatac 370

<210> 20
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(377)
<223> MAR of human chromosome 1, genomic contig; 12417411 to 12417787

<400> 20
attataatata atacatataa ttatataattt atatataaat tataataaat acatataatt 60
atataattat atataaatta tatataataa atacatataa ttacatatat ttataaatta 120
taataaatac atataattac atatattat atatgaatta tatataataa atacatataa 180
ttatataatat ttatatgtag attatataa aatataata atttatatat ataataat 240
atataattta tatataataat tatataataa ataaatatat ataattata tatataatta 300
tatataataat aaatataataa taatataatat aatttatata tataattata tatataataa 360
atataatataa ttttat 377

<210> 21
<211> 1524
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_binding
 <222> (1)..(1524)
 <223> MAR of human chromosome 1, genomic contig; 1643307 to 1644830

| | |
|---|------|
| <400> 21 | |
| tataaatata tataatata taaatatata taaatatata aatatatata aatatatata | 60 |
| aatatataaa aatatataaa tatataaaa tatataaaa tatataaaaa cataaaaata | 120 |
| tatataaata tatataaata tataaaaata tataaatata taaatatata aaaatataca | 180 |
| aatatataaa tatatacata aatatatata aatatatata aatataaaa aatatatata | 240 |
| aatatataaa tatatataaa tatatataaa tatataaaa tatataaaa 300 | 300 |
| tatataaata tataaaaata tatataaata tataaatata taaatatata taaatatata | 360 |
| aatatataaa taaatataag tatcatgaa tatatataaa tatataaaa tatataaaaat | 420 |
| atataataat atataaatat atataatat ataaatatat acatatacac atatataaaat | 480 |
| aaataaatat aagtatttat gaatatatat gaatataaa atatataaaa aatatatata | 540 |
| aatatataaa tatatataaa tataaatata taaaatata taaaatata tataatata | 600 |
| taaatatata taaatatata aatatatata aatataaaa tatataaaa | 660 |
| tatataaaa tatataaata tataaatata tataaatata tataatata taaatata | 720 |
| aatataaata tataaatata tataaatata taaaatata taaatata taaatata | 780 |
| taaatatata taaatata taaatata aatatatata aatatatata taaatata | 840 |
| taaatatata aatataaaa tatataaaaa tatataacaa tatataata tatataaaaa | 900 |
| tatataacaa tatataaata taaatata taaaatata taacaatata taaatataaa | 960 |
| tatataaaa tatataaata taaatataaa aaatatatat aaatataaa atatataaa | 1020 |
| atataataat gtataaatat atataaaaat atataacaa atataatat ataaatatat | 1080 |
| aacaatatat aaatataaa aaatatataa caatataaa atataaatat atataaaaaat | 1140 |
| atataacaa atataaatat aaatatatat ataaatatat aaatataaa ataaaaaaaata | 1200 |
| tatataaata tataaatata tatataaata tatataata tataatgtt taaatata | 1260 |
| taaatatata aatataaaa aatataaaa tatataaaa tatataaaa tatataaata | 1320 |
| taaatatata aatataata aatataaaa tataaatata taaacatata taaatata | 1380 |
| taaataaaca tatataaaga tatataaaga tataagata tataaatata taaatata | 1440 |
| aagatata aatataaaa gatataaaa tatataaaga tatataaata tataagata | 1500 |
| tataaatata atatataaaat atat | 1524 |

<210> 22
 <211> 664
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(664)
 <223> MAR of human chromosome 1, genomic contig; 1398763 to 1399426

<400> 22
 acacatatat atataaaata tataatatata cacacatata tataaaatat atatatatac 60
 acacatatat ataaaatata tatatacaca catatatata aaatatatat atacacacat 120
 atatataaaa tatatatata cacacatata tataaaatat atatatacac acatatatat 180
 aaaatatata tatacacaca tatatataaa atatatatat acacacatata atataaaata 240
 tatatataca cacatataca taaaatatata atatacacac atatataaa aatatatata 300
 tacacacata tatataaaat atatatacata acacatataaaaatata tatacacaca 360
 tatataaaat atatatacata acatatatataaaaatata tatacacata tatataaaat 420
 atatatacac acatatatataaaaatata tatacacaca tatatataaa atatatatata 480
 acacatataat ataaaatata tatatacaca tatatataaa atatatatata atacacatata 540
 atataaaata tatatacaca catatatata aagtatatata atacacacat atatataaaa 600
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 caca 664

<210> 23
 <211> 1428
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> MAR of human chromosome 2, genomic contig; 17840365 to 17841792

<400> 23
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 atatttagata taatatatata ctaatatata tatattttat atatataata tatctctaata 180
 atatatatattt tatatgtata taatatatct ctaatatata tatattttat atgtatataa 240
 tatatctcta atatatatata tttttatata taatatatct ctaatatata tattttatata 300
 atataatata tatctaatat atataatata tatatttagat atatataaaa tatatatgat 360
 atatttatta tatatataat atataatata taatatatata attatattat atacatataat 420
 attatataaca atatataatta tatataattttt atatacatatata tatatttatata atatttata 480
 tacaatatata attatataattt ttatatacaa tatatattat atatattttta tattttata 540

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| | |
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| tacaatatat attatatata ttttatatat aatatatatt atatatattt tatataatat | 600 |
| atattatata tattttatat ataatatata ttatataat tatatataat atatattata | 660 |
| ataaaattata atattttta tatatataat atgtatTTta tatataatat attataatat | 720 |
| atattttata tataatatat tataatatat attttatata taatatatta taatatatat | 780 |
| tttatattat aatatattat aatatattat ttatataaa tatattataa tatatatttt | 840 |
| atatataata tattataata tatattttat atataatata ttataatata tatattataa | 900 |
| tatatatttt atatataata tattatcata tatatattaa atatatattt tatatataat | 960 |
| atattataat atatatatta taatatatat tttatataa atatattata atatatataat | 1020 |
| tataatataat attttatata taatatatta taatatatat tttatataa atatattata | 1080 |
| atatatattt tatatataat atattataat atatatttt tatataatat aatatattat | 1140 |
| tttatataaa tatattataa tatattttt atatataata tattataata tatattttat | 1200 |
| atataatata ttataatata tattttatata ataatatattt atataatata ttttatataat | 1260 |
| aatatattat aatatatattt ttatataaa tatattataa tatatatttt atatataata | 1320 |
| tattataata tatttttat atataatata ttaattaaat ttatiaattt attaattatt | 1380 |
| aatattttt atattattaa ttaataatata ataaattattt aatataata | 1428 |

<210> 24
<211> 4624
<212> DNA
<213> Homo sapiens

<220>
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<223> MAR 1_6 of chromosome 1

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| ggggaagtat gcattctaag tgtaaagttt gatgagctt gacaaatgtc aacCCatgtA | 180 |
| ccagaacatt ttcatcaccc ataaaatctc cttgtgtca cttGCCAGTC agtgtctatt | 240 |
| ctagtatcca actcctggct ccaagaaacc attgaactgt tttctgtcac tataaattag | 300 |
| atttgtcttt tctagagttt catgtaaatg gaatcataca ctaagtactc tttgtgcctg | 360 |
| gcttctgctc agcataatgt ttttgagaat cattcatgct gctgcatgtt ttcagtagtt | 420 |
| cattttttta aataggtgaa ttgttaactca ttctgtgaat ataccatatt ctgtcttcca | 480 |
| tttatctgtt agtggatctt taggtcgTTT ctatTTTGG gctattgcaa ataaagctgc | 540 |
| tgtaaatattt aatgcacaag tttccatgt tcataatgtt catttcactt aggaaaatac | 600 |

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| | | |
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| ctaagagagg aattgcacat attaaaaaaaaa | ttttaaaaac tactaagctg ttctccaaaa | 660 |
| tggtgtaca attttattc ccaagagcaa tatgagtgtt taattgctcc acattctcac | | 720 |
| caacacttgg tgcttgtag ttttatttc attgtttca ttgttatgtc tgtgaggcag | | 780 |
| cattgatgtg catgtctctg agtgcacatct tagcggtgat gctgagcatc agttcacgtc | | 840 |
| cttataggcc gtttgatata ctgcttgtag aatgtctgt tcaaatactt tgcctattt | | 900 |
| aaattgagtt gtgttcgtct tcttaggatt aagtaatgag taaaaaatat ttctgataca | | 960 |
| aatcttcat tatataatttc taatgcttca tcacatctatag tttatattct catattctt | | 1020 |
| aactgtatct tttgaagagc aaatttact tttgattatg cccaatttat caagtttta | | 1080 |
| tatggctctt ttgattatgc ccataatcac attagactt gcctaaccac agttgcaga | | 1140 |
| gatttttct tttatgcttt tatctagaaa tttttagt ttaggtttta aaaaagtttta | | 1200 |
| atttatattt ttgagacagg gtattgctct ttacatatac tggagtgcag ttagtgcac | | 1260 |
| atggctact gcagcctcaa cctctgggc tcaagcggtt ctcccatctc agagtcctga | | 1320 |
| gtagctggcc aggtgcacat cagcttcaat gtgtttca ttgcatttc cctgataatt | | 1380 |
| attgacatttgc agcattttt tcataatca gtttagtatt tgcgtctt ctggatgtt | | 1440 |
| acatctatttgc gggcttttgc cccattttaa agtcagatgg tttgtttgtc agctatttgc | | 1500 |
| ttgtttgagt tccttgata ttctggatatt tacatcttgc tcagatgcac agtttgc | | 1560 |
| ttttttttt ctatatttgc ggttgtctt ttctctgtt tttccctccgg tatgcagaag | | 1620 |
| tttttttagt tgatgtattt tcatttgc gttttgtt ttgttgctt tactttctt | | 1680 |
| ttcttatcca aaaaatctt atctagatca atgtcacgaa gagttctcc tctgtttctt | | 1740 |
| tcgagtagtt tttataatt ttgggtatac atttaagtct ttaatctatt tggattgtat | | 1800 |
| ttttgcataat ggtgagagat cagactctaa ttccatactt ttggatgtgg aaagcttagt | | 1860 |
| ttttcagcac catttatttgc agagactgtc tcttctccaa tgcgtgttct ttgtgccttc | | 1920 |
| gtcaaaaatc agttggctgt gcgtggattt atttctgtgt tctctattt gttccattgg | | 1980 |
| tctagtttgc ccttaaatttgc taggtctgca attttttttt tttgtatata ggtgtgaagt | | 2040 |
| aagagtcaaa gttcatttattt tttcatatgg atatgtattt actccagttac catcatttgc | | 2100 |
| tttgaatggc ctgtcctttc tccatggat tacatggca tctttgtct gaaaccaattt | | 2160 |
| atgtatgtttt acgtatgtgt atgtttatgc atatgttata ggtttatata atattaat | | 2220 |
| atataatata taatataataa atattaatata gtttatata atatataatata atatattata | | 2280 |
| ttatattact atataaataa tattaatata ttatattaaa atattaatata atatatcata | | 2340 |
| ttaaatataa tattaatataa atattaatata atatattata ttaatataattt tataatataa | | 2400 |
| acctataaca tatgcataca cttattata tataacatgc atgtacttata ttatataat | | 2460 |
| aatatataattt tataatattat ataataatattt atatgttattt atatattata tataatataat | | 2520 |

3024-119-SEQ.ST25

| | |
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| tatatgtatt tatataattat atatcatata atatatataat ttatattata tatattataat | 2580 |
| gatataataat attatataat gtattaatat atattaaacc tatatttata attctggact | 2640 |
| cactatttg ttcatttgt gtctgtgt atctaaccct atgccaataa tgtactatct | 2700 |
| taattaccat agctttatag taagcittga aatcagatag tgtatTTTt atcattgttt | 2760 |
| tttaaaataa tagtttatct ttttatttga atttgtaatc agctagtca gttctgcaaa | 2820 |
| aagcttactg ggatttgct tggaattatg ttacatctgt agcatgtact atccaatatt | 2880 |
| ctagccTTA tccacatgtg gctattaagg tttaaattaa ttAAattaaa atttaattaa | 2940 |
| ttAAAattaa aacttaataa ttggTTccTC attcacacta ccatagtca agtgttcaat | 3000 |
| agccacatAT ggtcaatgtc ttggAAAAGT caatacaga catttccatt attgcagtaa | 3060 |
| gttctgtcaa acagcactat cgtagaccga ttaggagaga actgacttaa cagtattgga | 3120 |
| tgctccagtc aatgaacatc ttttttttt tcatttattt cagtagtctc tgcatgtat | 3180 |
| tatagatttc agtttacata ttttgcata ttttattaa atgtataacg gttagaagtac | 3240 |
| tattattgga ttagtgcattc tatagatgta ttttaggtca agtttgcattc tagtgcattt | 3300 |
| taaatctcgT atacctttg attttttat ttacttgcattc ttGAattac tgagacagga | 3360 |
| atgttatATC cttaactata tttgtgaatt tattcacttc ttccTTcagt tctgttaact | 3420 |
| tttgcttagg tgcttttaa aaatgaaact ttcaatctct gccttttaat ttagcattt | 3480 |
| agaccattta cattcaatgt aattatcaat atcagttt ttaagtctga agttgtgcaa | 3540 |
| ttttccTCT acctatatta taaatcttc tatataaaaa acacatgcta tgTTTCTgc | 3600 |
| atatgttttA aatgacaccc ggaaagcatt gacactattt ttgctttagg ttatTTTca | 3660 |
| aagatgttaa aaatgagaaa gaaatattct gcatttatcc atacactt tatttgcAA | 3720 |
| ggTTTTTTA aataccttg ttagatttc agttaccaac ttgtattcc ttcaGCTTGA | 3780 |
| agaacttaca atttcttgta ggacaggTct ctgacaacaa attatctcag ctTTTCTTG | 3840 |
| tctaaaaaAG ttattgcTTT tattttaaa atatatttc actggatatt gaatttttagg | 3900 |
| tgataatctt ttttttttG ttagcattt aaatatgtct tctaAtgtcc tcttgcTTc | 3960 |
| atagTTTCTG atgagaagtc tactgttatt agtacTCTT ttagtgcattc tctttttt | 4020 |
| CCCTCTCTGC tattatggct atttttttt ttttttttt ttttggTCAC tggTGTcAGC | 4080 |
| aatttaatta tggTGTGcCT tggTatgttt tggTGTGtG tggTGTGtG tggTGTGtG | 4140 |
| tggTGTGtG tagctgatgt tctttgagct ttGAatctG tgAGTTGta gttttcatca | 4200 |
| attatTTTTT CTTTcattc CTTTattta CTCatGTTG tggTTTattt tatattttA | 4260 |
| agaattttgt gctattttgt aataactgtt taaatgtcat ttgtGAattc cattGCTTCT | 4320 |
| aggtaggatt ctattgacag atatTTTTC CCTGACGAGA ggtcataCTT tccttattCT | 4380 |

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| | | | | | | |
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| tcatgtatct | agtggttttt | ggttgaatac | tggatatttt | gaattttatg | ggagtgcgtga | 4440 |
| attctacaat | attccttaaa | aatgtgttg | attttgttt | agcagatagc | tatcttactt | 4500 |
| gaagatcaat | ttcatatttt | ttgatgttca | tttttcatt | tattaaagaa | taggtccatg | 4560 |
| gtagagttt | ctgatataaa | ccttctgg | gtctctaata | aatgcaacat | attcaataag | 4620 |
| atcc | | | | | | 4624 |
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| <210> | 25 | | | | | |
| <211> | 3616 | | | | | |
| <212> | DNA | | | | | |
| <213> | Homo sapiens | | | | | |
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| <223> | MAR 1_68 of chromosome 1 | | | | | |
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| ttgcagatcc | ctgaactgag | gaggcaagat | cagttggca | gttgaagcag | ctggaaatctg | 120 |
| caattcagag | aatctaagaa | aagacaaccc | tgaagagaga | gacccagaaaa | cctagcagga | 180 |
| gtttctccaa | acattcaagg | ctgagggata | aatgttacat | gcacagggtg | agcctccaga | 240 |
| ggcttgc | ttagcaactg | ctacagttc | attatctcg | ggatcacaga | tttgctacc | 300 |
| tattgcctac | catctgaaaa | cagttgcttc | ctatattca | tccagttaa | tatttattta | 360 |
| aaccaagaag | gttaatctgg | caccagctat | tccgttgta | gtggatgtga | aagtaccaat | 420 |
| tccattctgt | tttactatta | actatcctt | gccttaatat | gtatcagtag | gtggcttgg | 480 |
| gctaggaaat | attaaatgaa | tggcatgttt | cataggttg | gtttaaagtt | gttttttgag | 540 |
| ttaaatctt | ctttaataat | actttctgat | gtcaaaaaca | cttagaagtc | atggtgttga | 600 |
| acatctatat | agggttggat | ctaaaatagc | ttcttaaccc | ttcctaacca | ctgttttgt | 660 |
| ttgtttgtt | ttaactaagc | atccagttt | ggaaattctg | aattagggga | atcataaaag | 720 |
| gtttcatttt | agctggccca | cataaggaaa | gtaagatatc | aaattgtaaa | aatcgtaag | 780 |
| aacttctatc | ccatctgaag | tgtgggttag | gtgcctcttc | tctgtgctcc | cttaacatcc | 840 |
| tattttatct | gtatataatat | atattcttcc | aaatatccat | gcatggaaaa | aaaaatctga | 900 |
| tcataaaaaat | attttaggct | gggagtggtg | gctcacgcct | gtaatcccag | cactttggga | 960 |
| ggctgaggtg | ggcggtatcat | gaggtcaaga | gatcgagacc | atcctgacca | atatggtgaa | 1020 |
| accccatctc | tactaaagat | acaaaactat | tagctggacg | tggtggcacg | tgcctgttagt | 1080 |
| cccagctact | cgggaggctg | aggcaggaga | acggcttcaa | cccaggaggt | ggaggttgca | 1140 |
| gtgagctgag | atcgcgccac | tgcactccag | cctggcgcac | agagcgagac | tctgtctcaa | 1200 |

3024-119-SEQ.ST25

| | |
|--|------|
| aaaaaaaaata tatatatata tatatataca catatatata taaaatatat atatatacac | 1260 |
| acatatatat ataaaatata tatatataca cacatatata taaaatatat atatatacac | 1320 |
| acatatatat aaaatatata tatacacaca tatataaaa atatatatat acacacat | 1380 |
| atataaaata tatatataca cacatatata taaaatatat atatacacac atatataaa | 1440 |
| aatatatata tacacacata tatataaaat atatatacac acacatatat ataaaatata | 1500 |
| tatatacaca catatatata aaatatatat atacacacat atatataaaa tatatatata | 1560 |
| cacacatata tataaaatat atatatacac acatatataa aatatatata tacacacata | 1620 |
| tataaaatat atatatacac atatatataa aatatatata tacacatata tataaaatat | 1680 |
| atatacacac atatatataa aatatatata tacacacata tatataaaat atatatacac | 1740 |
| acatatatat aaaatatata tatacacata tatataaaat atatatatat acacatatat | 1800 |
| ataaaatata tatacacaca tatataaaa gtatatatat acacacat atataaaata | 1860 |
| tatatacaca catatatata aaatatatat atacacat atataaaata tatatacaca | 1920 |
| catatatata aaaatatata tatatattt taaaatatt ccaattgtct cacttggtt | 1980 |
| atgagaaaaa gaagtagtta gaggtcaagt aacttggcct acattttc tcaagattgt | 2040 |
| aaactccntag tgagcaataa ccacatcttc atttcttg tataaaacaa gaaagtttag | 2100 |
| catgaaaaag gtactcaatt acaaatgtgt tggattgaat tgaagaccct tggagggga | 2160 |
| ttttgtacct gaggatctct ttctttggc catattgttc aatggacaaa atttagcctt | 2220 |
| cgaaggcagg ccgatttgag gtaataacta ctttaccac ttgatagcta tgtgacctt | 2280 |
| gccatgttgt ttcaacagtc tgaacctcat tttctctgtg tatgtgttgt cctccttaca | 2340 |
| agtttgaa aaatgtgaag tccttagcca tgatagccca atataacagg ctaaatgata | 2400 |
| ataggtttat gttctttcc tttatattct cagataagca ctgtccaagt ttgaggtgtt | 2460 |
| ttgaggtctc gcctgatttg gattgttga gtttatgcta ttcttgaat ttcttgagct | 2520 |
| gttctgaagc agtgtatcat gaacaaaaac atccccagtt cagtc当地 ccctggttac | 2580 |
| atatcattct tatgccatgt tataaccagt ttgagagtgt tccctctgtt attgcattta | 2640 |
| agtttcagcc tcacacagaa attcagcagc caatttctaa gccctaagca taaaatctgg | 2700 |
| ggtggggggg ggggatggcc tgaagagcag cattatgaat agcaccatta taattaatga | 2760 |
| tctctcagga agatttacaa tcacaggtag cagataaaac aaatagtact gcttctgcac | 2820 |
| ttccccctct ttatttcgct atgaaatttt atggaaatc agtccagtga aaaatgtaa | 2880 |
| ctcttaatct ttcccagaaa tcctacactca tttgatgaat actttgaggg aatgaattag | 2940 |
| agcattttt tctttatag tctacttcgc atttacgaag tgaggacggt agcttaggct | 3000 |
| gcctggccaa ctgatgagaa ggtcagagc attttttagag acctctgttgc tctttcattc | 3060 |
| atgttcattt tccacaaggc aagtaatttc caacaaatca gtgtcttcat tagtaataag | 3120 |

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| | |
|---|------|
| attattaaca acaataatag tcatagtaac tattcagtga gagtccatta tatatcaggc | 3180 |
| attctacaag gtactttata tacatctgag taaacctcac acaattctac agggaggtat | 3240 |
| ttcttatcccc atttaacaaa taagggaaacg aagtccaagt aaattaactt gcccaaggtc | 3300 |
| acacagatag tacctggcag aacaggaatt taaacctaaa tttgtccaac tccaaaagca | 3360 |
| gccttctatt ttttataaat gctgcctctc attatcacat attttattat taacaacaac | 3420 |
| aaacataccca attagcttaa gatacaatac aaccagataa tcatgatgac aacagtaatt | 3480 |
| gttatactat tataataaaaa tagatgtttt gtatgttact ataatcttga atttgaatag | 3540 |
| aaatttgcatttctgaaagc atgttccctgt catctaataat gattctgtat ctattaaaat | 3600 |
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<213> Homo sapiens

<220>
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| ggctgaggca caagaatctc ttgaacccgg gaggcggagg ttgcagtgag ctgagattgt | 180 |
| gtcactgcac tccagcctgg gcaacagtgc cagactctgc ctaaaaaaaaaaaaaaaaaaaa | 240 |
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| caggagaatg gcgtgaacct gggaggcgg gcttgcagtg agccgagatg gcaccactgc | 480 |
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| tggtagtcac cagctgttagt cccagctact tgggaggctg agttgggggg attgcctgag | 780 |
| ccagggaggt cgaggcttca gggagccatg attatgccac tgcactccag cctggccac | 840 |
| agagtgaac cttctgtcaa aaacaaaaaa acaaaaaaac acagtgtgtt agatcttgct | 900 |
| agacttggtg atataattaa gaggccatta tgggcagaac tggccccct tccaaaattc | 960 |

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| | |
|--|------|
| atataataat atatataaaat atatataaaat atataaaatat atataaatat ataaatatat | 1020 |
| ataaatatat aaatatatat aaatatataa atatataaa atatataaa atatataaaa | 1080 |
| atataataat atatataaaat atatataaaat atataaaaac ataaaaat atataaatat | 1140 |
| atataaatat ataaaaat ataaatatat aaatatataa aaatatacaa atatataaaat | 1200 |
| atatacataa atatataaa atatataaa atatataaaa atatataaa atatataaaat | 1260 |
| atataataat atatataaa atatataaa atataaaaat atatataa atataaatat | 1320 |
| ataaaaat atataaatat ataaatatat aaatatataa aaatataaa atatataaaat | 1380 |
| aaatataagt atttatgaat atatatgaat atataaatat ataaaaaata tatataaata | 1440 |
| tataaataa tataaatata taaatatata catatataca tatataaata aataaataa | 1500 |
| agtatttg aatatataatg aatatataaa tatataaaaa atatataaa atatataaaat | 1560 |
| atataataat ataaatatat aaaaatatat aaaaatatat ataaatatat aaatataat | 1620 |
| aaatataaa atatataaa atatataaa atatataa atatataat atatataaaat | 1680 |
| atataaatat ataaatatat ataaatatat ataaatatat aaatataaa atataaatat | 1740 |
| ataaaatat ataaatatat ataaatatat aaatataat aaatataat aatataat | 1800 |
| aaatataat aatataatataa atatataaa atatataat aaatataat aatataat | 1860 |
| atataataat atataaaaat atataacaat atataaatat atataaaaat atataacaat | 1920 |
| atataaatat aaatataat aaaaatatat aacaatataat aaatataaa atatataaaat | 1980 |
| atataaatat aaatataaaaa aatataatata aatataaaa tatataaaa tatataatg | 2040 |
| tataaataa tataaaaata tataacaata tataaatata taaatatata acaatata | 2100 |
| aatataaaa aatataataac aatataaaa tataaatata tataaaaata tataacaata | 2160 |
| tataaatata aatataatata taaatatata aatataaata taaaaat atataaatat | 2220 |
| ataaaatat atataaatat ataaatgtat aaatataat aatataataa | 2280 |
| atataaaaa atatataaaat atatataa atatataaa atataaatat aaatataaa | 2340 |
| atataatata atatataaaat ataaatatat aaacatataat aaatataat aaataaacat | 2400 |
| atataaagat atataaagat ataaagat ataaatatat aaatataaa agatataaa | 2460 |
| atataaaag atatataaaat atataaagat atataaatat ataaagat ataaatataa | 2520 |
| tatataaata tataaagata tataaatata atataaaaat atataaatat atattaaaaa | 2580 |
| tatatacata taaatatata tataaaaaat tgagatgggg tctcgctcag ccacccacgc | 2640 |
| tggagtgcag tggcacgagc tcggctcact gcaaccactg tctctgggt ccaagcaatt | 2700 |
| ctgtctcagc ctcccaagta gctgggatta caggcacctg ccatcatgcc cggttaattt | 2760 |
| ttgtatTTTA gtagagatgg agtttcacca tgggtccag gttggctcg aattcctgac | 2820 |

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| | | | | | | |
|-------------|--------------|-------------|------------|-------------|-------------|------|
| ctcaggtgat | ctgccggcct | cggccccc | gtgctggat | tacaggcatg | agtaccacg | 2880 |
| cccggcccta | tatataaaaa | tgagacaagc | tctgtgtc | ccaggctgga | gtgcagcagc | 2940 |
| atgatcatga | ctcaactgttag | cctagacctc | cagggctcaa | gtgattctcc | cacctcagcc | 3000 |
| tcccaagtag | ctgggattac | aggcatgcac | caccacaccc | agctaatttt | tgttttgg | 3060 |
| tgttttggag | acagaatctc | tctctgtcac | ccaggctgga | gtgcagtgg | gtgatctcag | 3120 |
| ctcagtgcaa | cctccaccc | ctggggtcaa | gtgattctca | tgcctcagcc | tcctgagtag | 3180 |
| ctgggactac | aggcgtgagc | caccacgccc | tgataaattt | tgtatTTTTT | ttttcagatg | 3240 |
| gagtctcact | ctgtcataact | caggctggag | tgcagtggcg | tgatTTTGG | ttattgcaac | 3300 |
| ctctgcttcc | tgggttcaag | cgattctcct | gcctcagcct | ccagagtagc | tgggattaca | 3360 |
| ggcgcctgccc | accatgcccc | cctagctaac | ttttttttt | tttttttga | gatagagtct | 3420 |
| cactctgtca | cccaggctgg | agtcaatgg | ggcgatattg | gctcaactaca | acctccaccc | 3480 |
| cccaggttca | agcgattctc | ctgcctcagc | ctcctgagta | gctgggatta | cagggtgg | 3540 |
| ccaccacgccc | agactaatat | ttgtattatt | agtagagacg | gggtttcacc | acattggtca | 3600 |
| ggctggtttc | gaactcctgg | cctcaggtga | tctgcctgcc | tcggcctccc | aaagtgc | 3660 |
| gattacaggc | atgagccact | gcggctggcc | caatTTTGC | atTTTTGG | tagagacggg | 3720 |
| ggTTTcacta | tgcttcccag | gctggctca | aactcctgga | ctcaagcgat | ctgcctgtct | 3780 |
| cagcctccca | aagtgcaggg | attacagtca | tgagccacca | ctgcacggcc | ccaaaattta | 3840 |
| tttattttat | tattattatt | atTTTTAGA | tggagtctcc | ttctgttgcc | agattggaaat | 3900 |
| gcagtgccac | gatctcagct | caactgcaacc | tccccctcct | gggatcaagt | gattttttt | 3960 |
| tttttaagac | tctgtctcaa | aaaaaaaaaa | aaaaaaaaaa | aatatatata | tatatatata | 4020 |
| tatacacgaa | tttgggcca | ggcacagtgg | cttatgcctg | taatccc | actttgggag | 4080 |
| ggccgaggtg | ggtggtcac | aaggtcagga | gttgagacc | agcctggcc | atatggaa | 4140 |
| accctgtctc | tactaaaaaa | tacaAAAATT | agctggcgt | ggtggcacga | gcctgtatc | 4200 |
| ctggctactc | tggaggctaa | ggcaggagaa | tcgcttgaac | cggggaggca | gagggtcag | 4260 |
| tgagccagga | tcgcatcact | gcactcc | ctgggtaaca | gagcaagact | ctgtctcaa | 4320 |
| aaacaaacaa | aacaaaacaa | aacaaaataa | ataacggtgc | aaaattgaat | atgcctttt | 4380 |
| gactctctaa | atgcctcaga | tccatttacc | ctggggattt | gtccttct | gccccaccac | 4440 |
| catctcccct | ctggaagact | gctgacctat | aaggataaag | accagactct | tgagcaggca | 4500 |
| cttagggtct | tcctgccc | ccctatcccc | aactccccct | cagtaatttt | ggctactagt | 4560 |
| atttctccac | atctgaggct | atcgtggc | tcccttc | cagt | ggtcatgaag | 4620 |
| gagaagtttgc | ccctcgtgag | tctgatgagg | gattgggtgg | | | 4660 |

<210> 27
 <211> 3354
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(3354)
 <223> MAR X_S29 of chromosome X

| | |
|---|------|
| <400> 27 | |
| gatcccttta taaaaccaca atataatgga gtgctataat ttcaaacagt gtttggcttg | 60 |
| ctggcagagt ggtcattcta acagcagtca cagtagagta gaaataagac tgcatatat | 120 |
| ctaaggcaaa aagctgaggt ttcaggagct tgaaggtaaa gaggaagaaa gaaatggaa | 180 |
| tgggaattgg aaagacaaat atcgtaaga gaaaattgct ttaggagag gggaaagaat | 240 |
| ctatgtgtac ttaagactat ggaatcaatc ccatttaagc tggaaacta gtttcatata | 300 |
| taactaataa attttatTTTA cagaatatct atttacCTGA tctaggCTTC aagccaaagg | 360 |
| gactgtgtga aaaaccatca gttctgtcat attcctaaaa aaaaattaaa aagttaaaaa | 420 |
| taaataaata ataaaacttc tttctttca aaataatcaa ggtgcttatt cacatccatt | 480 |
| ccaatttggg gaaatactta tttccatag attagcgaag agaaaagtaa cttgcatttc | 540 |
| aattcaagtt gatacatgtc acttttaaga ggtcaactaa tatttgcTAG ttgagctaac | 600 |
| catataggct ttaaataactt tcataCTGAGA aagaaaatga aaatcattAG tgaactgtat | 660 |
| aaaatagatc atacttttg aaagaatcag actgaagttt ccgaaaaaaaaa gaagtaagct | 720 |
| tcaatgaaaa ggttaagtgaa tttagcattt actcagcatc tactatggac ttaacaccta | 780 |
| acagtagata atctgaaggc aaacatatTTT gtatagggac tgcagaatga tagatgataa | 840 |
| atatcatCTC ttctatttga atgaatatTTT tttcaaatct ttcacacaca gtggTTTGT | 900 |
| atggaaagat ttgtgtaca ttaaacaat ctgaagatgg agttagaaag cttaggctat | 960 |
| gtttttagca caacatataa ttctctgtg attgtttctt catcttcaa atgaggTTAC | 1020 |
| tgtgaagatt aaatgagata actaaatgtat gataaaataa tgtaatCTTA gcagcacCTT | 1080 |
| atTTAATCTG TGCAACAAct CTGTGAAGTG AGTAGGGCTC AGCTTCAGTC ACTTCTCTGC | 1140 |
| catttattaa ctaagatagt ttggaaagtt acccatCTCT tcagctgtaa aatgatgagg | 1200 |
| atcataccta ttttatgggg ctgttttag gtacaaatAT acaggcaAGC actttgttaa | 1260 |
| tactaaagca ttacaccaat tagtttact ctttccatt cacacatgaa attaatgtaa | 1320 |
| tcagaattct gttagattacc taaatCTTCT GTTAACACGT GATATGCAGT TCAGGTAAA | 1380 |
| tgtcaggTTGA GTTACCAAAG CACATACATA CTCAACCACCC TATCCAATC TACAAGCCTC | 1440 |
| ccagTTTGTc TTCACTATTT TGGTTAAATT AATATGAATT CCTAGATGAA AATTCACTG | 1500 |
| atccaaatga aataaaaaat atattacaaa actcacacCTT GtaatCTCAA CATTGggGA | 1560 |

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<211> 677
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(677)
<223> MAR of chromosome 1 genomic contig; 12803267..12803943

<400> 28
ttatataatgtatataatag tataatattat atagtataca taatagtata tattatataag 60
tatacataat agtatataatt ataataataca taattgtata tatcatatag tatacattat 120
agtatataatc atatagtata cattatagta tatatcatat agtatacatt atatagtata 180
tatcatatag tatacattat agtataatc atatagtata cattatagta tatatcatat 240
agtatacgta atatgtata tcataatgtatacgtatatacgtatatacgtatatacgt 300
taatagtata tatacgtaat agtataatc atatagtata cgtaatagta 360
tatatcatat agtatacgta atatgtata tcataatgtatacgtatatacgtatatacgt 420
atatgtatacg taatagtata tatacgtaat agtataatc atatagtata 480
tattatatagtatatacat atatgtata ttatataatgtatatacatat agtataatatt 540
atatagtata tatacgtaat agtataatc atatgtata tcataatgtatataatgtata 600
tatatatacat atatgtata taatagtata tatacgtaat agtataatc atactatatt 660
atatataatgtata tacataaa 677

<210> 29
<211> 332
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(332)
<223> MAR of chromosome 1 genomic contig; 13079684..13080015

<400> 29
ttaattatataatataattat atataattat atattaat atattaatta tattatataat 60
attatataat tataatattaa tataatattaa ttatattata tataattat aattatataat 120
taatataat taattatatt atatataattata tataattata tataattata tataattat 180
attatataat tataatattata tataattata ttatataattata tataattata tataattata 240
atataatataa ttaatataattata attaaaacta ttatataattata tataattata tataattata 300
tattatattaa atataatata tattatattat at 332

<210> 30
<211> 479

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<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(479)
 <223> MAr of chromosome 1 genomic contig; 15682296..15682774

| | |
|--|-----|
| <400> 30 | |
| acaagtacat atatatata tag tatataca caagtacata tatatagtat atatataat | 60 |
| acaagtacat atatatagtat tatataataca tacaagtaca tatatatagt atatataat | 120 |
| acaagtacat atatatagtat tatataataca caagtacata tatatatagt atatataat | 180 |
| acaagtacat atatatagtat tatataataca caagtacata tatatatagt atatataat | 240 |
| acaagtacat atatatagtat tatataataca caagtacata tatatatagt atatataat | 300 |
| acaagtacat atatatagtat tatataataca tacaagtaca tatataataca gtatataat | 360 |
| atacaagtac atatataataca tatataataca tacaagtaca tatataataca tagtgttat | 420 |
| atataataac aagtacat atataacttgt attagtataat atataataat atacaagta | 479 |

<210> 31
 <211> 531
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(531)
 <223> MAr of chromosome 1 genomic contig; 15694611..15695141

| | |
|---|-----|
| <400> 31 | |
| tataatata ataaatacata atagatataat tatattataat aatagatata taattataaa | 60 |
| cataataata tataatgaat ataataaaaa ataaatataa taaaatataat aatataatcta | 120 |
| ttatgtatta tatattataat atgtttatata ataatataat tatatatgtt tatataataat | 180 |
| ataattataat atgtttatata ataatataat tatataattat atattataga tataatataat | 240 |
| aatatactat atattataga tataatataat aatatactat atattataga tataatataat | 300 |
| aatatactat atattataga tataatataat aatatactat atattataga tataatataat | 360 |
| aatatactat atattataga tataatataat aatataattat atatattata gatataatata | 420 |
| ataatataatt atatattata tctatataat atatattgtt tattatataat aatatattgt | 480 |
| atattatata taatataattt gatataatataat atatattataat gatataatata t | 531 |

<210> 32
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(378)
 <223> MAR of chromosome 1 genomic contig; 886276..886653

| | |
|--|-----|
| <400> 32 | |
| ttatattata tatcttacat aaattatata tataattac ataaattata tacaatataa | 60 |
| attatataca atataattta tatataaaat ataaattata taaataattt atatataaaa | 120 |
| tataaattat ataaataatt tataataaa atataaatta tgtataaaat ttatataaa | 180 |
| aatataaatt gtgtataaaa ttatataaa aatataaattt gtgtataaaa tttatataa | 240 |
| aatataaaat tataatataat ttatataatt taatataaaat tataatataat atatatcata | 300 |
| aatataaaat tataatataat atatatcata agatataaaat tataatataat atatatcata | 360 |
| agatataaaa tatataat | 378 |

<210> 33
 <211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(595)
 <223> MAR of chromosome 1 genomic contig; 3326732..3327326

| | |
|--|-----|
| <400> 33 | |
| aaaatatata aatatatata aaaatatata aaaatatata aatatatata aaaatatata | 60 |
| aatatatata aatatatata aaaatatata aatatatata aatatatata aatatataaa | 120 |
| atatatataa aatatatata aatatatata aatatatata aaaatataaa tataatataaa | 180 |
| aatataaata tataataata tatataaaaa tataatata tataatata tataatata | 240 |
| tataatata taaatatata taaatatata aatatatata aatatatata aatatatata | 300 |
| aatatataaa tatataaaaa tatataaaa tatataata tataatata tataatata | 360 |
| taaaaatata tataatata taaatatata taaatatata tataatata tataatata | 420 |
| tataatata tataatata aatatatata aatatatata taaatatata taaatatata | 480 |
| tataatata taaatatata taaatatata taaatatata tataatata tataatata | 540 |
| tataatata tataataata tatataaaata tatataaaa tatataaaata tataatata | 595 |

<210> 34
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

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<222> (1)..(738)
<223> MAR of chromosome 1 genomic contig; 4485716..4486453

<400> 34
ataatagata atatatatta tatgatagat atataatata ttatataata tataatata
tatatatcta tcataataata tatataatatt ataatatctat catataatata
aatatatata atatataata tatatcatat tatattgtat ataatatata tcataattata
ttgtatataa tatatatcat attatattgt atataatata tatcatatta tattgtatata
aatatatatac atattatatt gtatataata tatatcatat tatattgtat ataatatata
tcataattata ttgtatataa tatatatcat attatattgt atataatata tatcatatta
tattgtatata aatatatatac atattatatt gtatataata tatatcatat tatattgtat
ataatatata tcataattata ttgtatataa tatatatcat attatattgt atataatata
tatcatatta tattgtatata aatatatatac atatattatac tattatattg tatataatata
atattatata ttatctatta tattgtatata aatatatatt atatattatac tattatattg
tatataatata atattatata ttatctatta tattgtatata aatatataat aaatatagta
tatataatatac aatatatataa gtatatatga tatattatata atactatata ttatataatca
tatataactat atactata 738

<210> 35
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(386)
<223> MAR of chromosome 1 genomic contig; 5423067..5423452

<400> 35
taaatatata aaaatatata taaaatataaaaatattta tataaatata taaaatatt
tatataaata tataaatata taaatatata tttatataaa tatataaata tataaatata
taaatatata tttatataaa tatataaata tatatttata taaatatata aatatata
aaatatataa atatatattt atataaatat ataaatatata ataaaatata taaatatata
tattttatata aaatatataa atatatataa aatatataaa tatatataatt ttatataat
atataatata atataaaata tataaatata tatattttat atatttatata atataaatac
atatatttca tatatcacat atatga 386

<210> 36
<211> 584
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(584)
 <223> MAR of chromosome 1 genomic contig; 5805559..5806142

| | |
|---|-----|
| <400> 36 | |
| taaatatttt taaaatataat atattttata atatataatt tatattataa tgtgtacata | 60 |
| atatatatta taatataata tatataatac tgtatattat attatatata ttataatata | 120 |
| tattattata tattatatta tatataatat aatatatatt ataatatattt atattataca | 180 |
| tattataatg tattataata tatattatat tatatattat aatatatattt atattatata | 240 |
| ttataatata tattatatta tatattataa tatatattat attatattat atatattata | 300 |
| atacatatta taatacatat tatataatat attataatat gtattataat acatattata | 360 |
| taatatatta taatatatta tatataataa tatattataa tacatattat atataatata | 420 |
| tattatgtat attatatata atatatatta caatgtatat tatgtatattt atatattata | 480 |
| tatatcatat aatatatattt atatataata tgatatataa tatatattat ataatatattt | 540 |
| atatgatata tataatatgtt attacatgtat atatatatca taat | 584 |

<210> 37
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(345)
 <223> MAR of chromosome 1 genomic contig; 10802644..10802988

| | |
|---|-----|
| <400> 37 | |
| tgttatata tactatataat atactatata tatagtgtat atatatacta tatataact | 60 |
| atatatataag tgttatata tactatataat atagtatata gtatatactg taatataat | 120 |
| atatagtata tatatacact atatatagtat tatatagtat atatataattg tgtatatagt | 180 |
| atatatactg tgttatataat gtatataat attgtatata tagtataat attgtgtata | 240 |
| tatagtataat atatagtata tatagtataat atagtatata tatatgtat atataactata | 300 |
| tatatgtat atatataattg tatatataat ctagtatata agtata | 345 |

<210> 38
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(474)
 <223> MAR of chromosome 1 genomic contig; 13496468..13496941

<400> 38
atattatata taatataatt atatctataa ttatatatta tatataatat aattatatat 60
ctataattat atattatata taatatatat tataatataat atataattat atataattta 120
tataatataa tatataatat ataattatat ataattatat aatataatat ataatatata 180
attatatata atttatataa tataatataat aatataat tatatatatt tatataatat 240
aattatatat aatataaat tataatataat ttatataata taattatata taatataataa 300
ttatataaa tttatataat ataattatat ataattatat atttatata atttatataa 360
tataattata tataatataat aattatataat aatataat tatatataat tatatataat 420
atataattat atataattta tataatataa ttatatatta tatatattat atat 474

<210> 39
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(483)
<223> MAR of chromosome 1 genomic contig; 2509163..2509645

<400> 39
caaaatacat aatatataat agtatttat aatagtatgt atagttataa tatatagtat 60
aattacaata tatgatatgg tttatatatt atatatagt aatataata taacataata 120
ctattataat atataaacta tataatataat actattataa tataatgaact attataat 180
ataaaactata tataatataat aatatgtact attataatata ataaaactatt ataataataat 240
atataaacta ttataataca taaaactatta taatataat aatactatgt atacatataat 300
tacattatgt acatactaca ttatgtatta tgtatgtata tatacacaaa atacataata 360
tataatagta ttatataata gtatataatg ttataatata tagtataatt acaatataata 420
atatggttta tatatttat atatgtataat acaatataac ataatactat tatatataaa 480
cta 483

<210> 40
<211> 641
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(641)
<223> MAR of chromosome 1 genomic contig; 2776349..2776989

<400> 40
tgttatatat atataacata gatatttat atacatgtta tatatataac atagatatta 60
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| | |
|--|-----|
| tatatacatg ttatatatat aacatagata ttatatatat aacatagata ttatatatac | 120 |
| atgttatata taacatagat attatatata catgttatata ataacagata ttatatatac | 180 |
| atgttatata taacatagat attatatatg tatgttatata ataacataga tattatatat | 240 |
| gtttatataa tatataacat atgttaaca tatataatat ataacatgtt tatataatat | 300 |
| ataacataat tataatgttat atatgatata aaacatatat attatatacg ttatatgtaa | 360 |
| tatataacat atattgtata cgttatatgt aatatataac atatattgtt tacgttatata | 420 |
| gtaatatata acatatattg tatacgttat atgtaatata taacatatat tgcatacggtt | 480 |
| atatgtaata tataacatata attgtatacg ttatatgtaa tatgtaacat atattgtata | 540 |
| cgttatatgt aatatgtaat atataataca tataacatgt atatataaca tatatgtata | 600 |
| taacatatatata taacatatat gttatattat a | 641 |

<210> 41
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(745)
<223> MAR of chromosome 1 genomic contig; 2858703..2859447

| | |
|---|-----|
| <400> 41 atatttatat atgtaataat atataatata ttttatatgtt tttgttatatg taataatata | 60 |
| tatataataa aatatgtaat aatatataat atatttatat ataaatataat tatatttatat | 120 |
| atatattatt atatttataa tataatataat atttattatta tatattataa atatataat | 180 |
| tataatataat attataaataa tatatttatat aatatataattt ataaatataat attatattat | 240 |
| atatttataaa tatattattat ataataatata ttataaatat atatttatata atatataat | 300 |
| taaatatata ttatatttat aatatataattt tttgttatattt atatattata tattataat | 360 |
| attatttatat ttataatata ttatattat tataatataat atatgatata tattataat | 420 |
| atatcttata aatataatata ttttatataa tatattataa atatataat ataaatataat | 480 |
| aatataatata aatataatata aataaaataa atatataata tatataatata ataaataata | 540 |
| taataaaata aatataatataca tataaaatata aatataaaataa taaaatatac atataaaataat | 600 |
| atataatattat atgatataattt atagtataata taaaatataattt tatataatattt aaaatattta | 660 |
| tataatataat aattataataa tatttatata tataaaattaa ctaatataata taaaactaata | 720 |
| taataatataaa tgtaataata tagta | 745 |

<210> 42
<211> 307

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(307)
<223> MAR of chromosome 1 genomic contig; 945522..945828

<400> 42
catatataat atatattacc tatgttatat aggtcatata taacataaat atattacata 60
tatgtaatat atattaaata taaatatata acatatatgt gtaactatat atgtaaatat 120
gtacatatac atatatgtaa atatataata tatatttaca ttatattata taatataat 180
ttacattata tatttatata tacattatat atatttacat tataaatatt tatataat 240
atatttacat tatattacat tatataaaat acaatatatt acattataat acattataac 300
agataaaa 307

<210> 43
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(357)
<223> MAR of chromosome 1 genomic contig; 3402743..3403099

<400> 43
aatattatat taaatataat atattaatat ttaatatatt taatataata ttaaataaaat 60
atattataaa taaattataa tatataaata tatattatgt atttatgtat aatataaaaa 120
aattatatat aatatatata ttttataaa tatataaata tataataat aaatatatta 180
aataaataat aatatattaa atattaatat attaaatatt atatattaaa tataatatgt 240
aatatgaaat atattaaata ttatattata aatataatat ataatgtgaa atatattaaa 300
tattatatat taaatataat atataatatg aaatatatta aatattatatt attaaat 357

<210> 44
<211> 323
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(323)
<223> MAR of chromosome 1 genomic contig; 3485830..3486152

<400> 44
atatttatac actatataatt tataatattt gtgttattgt atactatata tttatatagt 60
tagtatattt gtatactata tatttatata tttagtataat ttgtatacta tatatttata 120

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| | |
|---|-----|
| tattnagaat atttgtatac tatataattta tatattnagt atattngtat actatatatt | 180 |
| tagtatattt gtatactata tatttatata tttagtataat ttgtatacta tatatttata | 240 |
| tattnagtat atttatatac tatatactta tatattnagt atattnatatac actatatact | 300 |
| tatataattta gtatattttat ata | 323 |

<210> 45
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(498)
<223> MAR of chromosome 1 genomic contig; 3548336..3548833

| | |
|---|-----|
| <400> 45 aattattact atattgttaa tataattatt atataatata atataattat atcactatta | 60 |
| ttatattata gtattaatat aatagtgtat aacattaata taatatagtta ttaatataat | 120 |
| agcgtaaac attaatataa tatagtatta atataatagc gtataacatt aatataat | 180 |
| agtattaata taatagtgtta tattaatata atatagtatt aatatataat attaatataa | 240 |
| tatatacaata taatagtata taatataata taatataatca atataatagt atataatata | 300 |
| atataatata tcaatataat agtatataat ataatataat atatcaatata aatagtata | 360 |
| aatattaata taatataata tcaatataat agtatataat attaatataat taatataata | 420 |
| gtatataata ttaatgtat ataatattaa cataatgtat ataataatata aatagtata | 480 |
| aatactaata taatataaa | 498 |

<210> 46
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(400)
<223> MAR of chromosome 1 genomic contig; 4595109..4595508

| | |
|--|-----|
| <400> 46 aaatataatttatttataat tataatattat tcaatataact ataatataata ttatataatgt | 60 |
| ttaataacaat atataatatt tacatataattt cccattttat tatataacat atattatatg | 120 |
| atattatata ttactccata taatataata tattatacat aatatattac tcagtataat | 180 |
| acataatata tataatataat tactcggtat aatatataat attatatgtt atgcaatata | 240 |
| atataataata ttatataataa tacattatttc aatataatata ataatattat atataataca | 300 |

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| | | |
|--|----------------------------------|-----|
| ttattcaata taatatataa tacactattc | aatataatat acaatattat atataataca | 360 |
| ttattcaata taatatataat tatataatat | atataatttat | 400 |
| | | |
| <210> 47 | | |
| <211> 403 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| | | |
| <220> | | |
| <221> misc_binding | | |
| <222> (1)..(403) | | |
| <223> MAR of chromosome 1 genomic contig; 7205509..7205911 | | |
| | | |
| <400> 47 | | |
| agtatatata tgggtatata tatgagtata tatatgtta tatatatgag tatatatatg | | 60 |
| tgtatatata tgagtatata tatgtgtata tatatgagta tatatatgtg tatatatatg | | 120 |
| agtatatata tgggtatata tatgagtata tatatgtta tatatatgag tatatatatg | | 180 |
| tgtatatata tgagtatata tatgtgtata tatgagtata tatatgtta tatatgagta | | 240 |
| tatatatatg tgtatatatg tgagtatata tatgtgtata tatatgagta tatatgtgtta | | 300 |
| tatatatatg tatacatatg tgtatataa tgacatataa tgtgtatata tatgagtata | | 360 |
| tatatgtgtta tatatatatgag tatatatgtg tatatatatg agt | | 403 |
| | | |
| <210> 48 | | |
| <211> 309 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
| | | |
| <220> | | |
| <221> misc_binding | | |
| <222> (1)..(309) | | |
| <223> MAR of chromosome 1 genomic contig; 7507280..7507588 | | |
| | | |
| <400> 48 | | |
| tataaaatata tattattatata taaaatataa tattatatta tatattatag | | 60 |
| atataataaa taaaataatata ataataatatt atataattat ttatacataa ttatataaa | | 120 |
| ttatatgtaa ttgtacaatt atatataatt atatacaatt atacacataa ttatatacaa | | 180 |
| ttatacaatt atatacataa ttatataatata aatatacata attatataatt aattatacaa | | 240 |
| ttatatacat aattatataat aattatacaa ttatatacat aattattatg tatattatata | | 300 |
| tatataataa | | 309 |
| | | |
| <210> 49 | | |
| <211> 516 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |

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<220>
 <221> misc_binding
 <222> (1)..(516)
 <223> MAR of chromosome 1 genomic contig; 3581085..3581600

| | |
|---|-----|
| <400> 49 | |
| atataatatat atatatatat atttatatat atatatatta atatatatta tatataaaaa | 60 |
| tatataaaaat ttatatatat aatttatata tataaaaata tataaaattt atatatataa | 120 |
| tttatatatata taaaaatata taaaatttat atatataatt tatatatata aaaatatata | 180 |
| aaatttatat atataattta tatatataaa aatatataaa atttataatat ataatttata | 240 |
| tatataaaaa tatataaaaat ttatatatat aatttatata tataaaaata tataaaattt | 300 |
| atatatataa ttttatata taaaatatat aaatttatata tataattata tatataatat | 360 |
| aaaatttatat atataattat atatataata taaaattata tatataatta tatataataat | 420 |
| ataaaaattat atatatattg tatatataaa aatatacaa aatttatata tataaaatat | 480 |
| aaaatataca taaaaataaa tatatataat ttat | 516 |

<210> 50
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(534)
 <223> MAR of chromosome 1 genomic contig; 3084851..3085384

| | |
|--|-----|
| <400> 50 | |
| atataatata tatgactata tattttatat tatattctat ttcaataaaa tatttatatt | 60 |
| ttatttatata ttataatata taatttatata tgtaataata tataatataat aatataatt | 120 |
| ttatattata ttttatattt atttttatat tttatattat attttattat atatattata | 180 |
| atatataatt atatatgcaa taatattata tatattataa tataattata tatatgcaat | 240 |
| aatatattat atattataat atataattat atatgcaata atatattata gattataata | 300 |
| tataattata tatgcaataa tatattatatt attatattat agataatata ttaatataata | 360 |
| ttataacata taatattataa catataatata ataattatatt atctaataata taatataaca | 420 |
| tataatattat aatattattat ataattatatt attacatata taatattattg taatataataa | 480 |
| tattacatata atcttcaaaa agagttatgt gtatataata catatatata ccat | 534 |

<210> 51
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>

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<221> misc_binding
<222> (1)..(583)
<223> MAR of chromosome 1 genomic contig; 160087..160669

| | | |
|---|-----|--|
| <400> 51 | | |
| tatttatata aaatatataa aatatattat atataaatat attatatata atatatttat | 60 | |
| atattataca atatattttat atattatata taatatattt tatataatat acataatata | 120 | |
| ttttatata tataatataat atatttata tataatgtac aatatatttt atatattata | 180 | |
| tataatataat ttatataata ctatacaata tattttatattt attatataattt ttatataat | 240 | |
| ttttcatgta acatataatat ttatataata atataatatac catatataat atatttata | 300 | |
| tataatataat ataccatata taatatattt tataatataat atgtatatac tataatagtat | 360 | |
| attttatata taataggtat accatataata atatattta tataatataag gtataacata | 420 | |
| tataatataat ttatataata atatgtatac cataatataat atatttata tattatagat | 480 | |
| accatatgta atatactta tataatataat agataccata tgtaatatac ttatataata | 540 | |
| atataatatac catatgtaat atacttata tataatataat ata | 583 | |

<210> 52
<211> 314
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(314)
<223> MAR of chromosome 1 genomic contig; 4350424..4350737

| | | |
|--|-----|--|
| <400> 52 | | |
| tatgtgtata taaatataatg tataatgtg tataatataaata tataatataatg tataatata | 60 | |
| tgtatataata catatattta tataatataaata tatgcataata tttatataata aatataatgc | 120 | |
| atataatgtat atatataaaaa tataatataca tataatataata tataatataat atacatataat | 180 | |
| gtatataatataaaa catatatgta tataatataaa atatataatcat atatgtatata | 240 | |
| atataatataatata tataatataata tgtatataata taaaatataat acatataat tataatataaa | 300 | |
| aataccaaatg ctta | 314 | |

<210> 53
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(828)
<223> MAR of chromosome 1 genomic contig; 8443267..8444094

<400> 53

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| | |
|---|-----|
| tattatataa ttatataaac tatataatta tataatatat agttatataag tataatataat | 60 |
| atataataa tatactatag tataatataat atatataata tatactatag tataatataat | 120 |
| atataattat atataatata tataatataag tataatattat atatataat tataatataa | 180 |
| atataatat aatataatata atatagtata tataatatat aattatataat aatataataat | 240 |
| atagtata taatataataa tataatata attatatact ataataatata taatataataa | 300 |
| ttatataatta tatactatag tataatattat tataatataat agatataata tataatataa | 360 |
| ttatataata tagtatataat aatataataat tataatataat agatataata taatataatt | 420 |
| atataataa tagtatataat aatataataat tatattatata tataatataat atataattat | 480 |
| aatataataat tatattatata aatataatata atatataatt atattatata attatattat | 540 |
| ataatataata taatataataa ttatattata taatataat aatataataat tataattatata | 600 |
| aatataatata atatataatt atattatata atatataataa tataatataa tattatataa | 660 |
| tataatataat atataattat atattatata taatataatga tataatataat gtaattatata | 720 |
| atcatataat atataacatt gtatataata tataattaca tattatataa tgtatataat | 780 |
| atataattat atacattata taatataatga tataattata tattatgt | 828 |

<210> 54
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(573)
 <223> MAR of chromosome 1 genomic contig; 8703190..8703762

| | |
|---|-----|
| <400> 54 | |
| tatattatata ataaaatata catataatata acctataata tacatataat atataatata | 60 |
| tattatgtac atataatata catataatata atataatata taatgtacat ataataatata | 120 |
| tataatataat gttatataatt atatataaaa tataggatata atataatataa gaatataatata | 180 |
| actatattgt atatataaga tatataatata atagtatata tactatataa tatataatata | 240 |
| atagtatata taatataataa tatagaatata atatacaata tataatataat aatataggat | 300 |
| atataatagaa tatacatata taatatgtat atattatata ttatattata tattatataa | 360 |
| aaatataataa tatataatata aaaaatataat tatatattat ataataataaa atatattata | 420 |
| tattatataat tatataatata aaaaatataat atatattata tattatataat aaaaatataat | 480 |
| atatattata tattatataat aaaaatataat tatatattat atattatata taaaatata | 540 |
| ttatatatta tatataaaaaa tatatattat tac | 573 |

<210> 55

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<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(597)
<223> MAR of chromosome 1 genomic contig; 8819076..8819672

<400> 55
acatatctta tatataaaat atataaatat acacatattt tataatataat atatattata 60
tatatgaaat atacacatat ttttatatat ataatatata tattatatat aatatatgca 120
tatattatat ataaaatata tatattatat ataaaatatg catatattat atataatata 180
tataatataa aatatataat atatattata tattatatat aatatatatt atatataata 240
catatatata atatataata tatataaaat ataatatata tattatataa tatataatata 300
aatatatata atatatatat aatatatata ttatataaa aatatatatt atatgtaaaa 360
tatataatat atataatata tatattatat gtaaaatata tattatatat aaaatatata 420
atataaaaa tatatattat atataaaata tataatataat aaaatatata atatataaa 480
aatatataat atatataaaat atatattata tataaaatat ataatatata taaatatata 540
ttatataaa aatatataat atatataaaat atatattata tataaaatat atattat 597

<210> 56
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(646)
<223> MAR of chromosome 1 genomic contig; 759619..760264

<400> 56
taatatatat aatatatatt atataataat atataatata tattatatta taatatataa 60
tatattatat aataatataat attatataat atataataat atatataata catattattt 120
aataatataat aatatatatt atataataat atataatata tattatataa taatatacat 180
tatattatat aatatataat atatataata tatattatat aataatataat aatatataatt 240
atagaatgt atattagata ttatataatt atatataaa tattatatat tatataataa 300
tatataatat atattatata attatataata taatattata tattatataa ttatataataa 360
tatattatat aattatataat ataatattat atattatata attatataata atatataatta 420
tataattata tatataataac tatatattat ataattatata ataataactat atattatata 480
atttatataa ttatataatata tatatattat ataattatata atattatataa ttatataataa 540
acatatataat tatatattat ataataacat atatattata tattatataa tacatataata 600

| | |
|--|-----|
| ttatatatta tataatacat tattatataa tatataatat atatta | 646 |
|--|-----|

<210> 57
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(752)
<223> MAR of chromosome 1 genomic contig; 1226710..1227461

| | |
|--|-----|
| <400> 57 | |
| taaacatata tataaatata tataaatata tatataaata tatataatata | 60 |
| taaatatata tgaatatata aatatatata aatatatag aatatataaa tatataatata | 120 |
| aatatatata aatatatata taaatatata taaatatata taaatatata | 180 |
| taaataaata tataaatata tataaatata taaatatata tataatatg taaataaata | 240 |
| tatataaata tataaatata tataaatata tataatata tatagaata tatatagaaa | 300 |
| tatataaaa tatatataga aatatataga aatatatata gaaatatata taaatatata | 360 |
| taaatataga aatatatata aatatatata aatatatata gaaatatata atatataaa | 420 |
| atatatataa atatataaat atatataaa atatataat aaatatataat aaatataat | 480 |
| aaatatataat aaatatataat aaatatataat attatataat aaatctataat taatataat | 540 |
| taatataaa atctatatta atatataat atatataat taatataat taatataaa | 600 |
| atatataat taatataaa atatataaa atatataatg aaatataat ataataat | 660 |
| ataaaatata atataaatac atataaatat atatataat atatataat atatataaa | 720 |
| atatataaa atatataat atatataat aaatataat aa | 752 |

<210> 58
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(300)
<223> MAR of chromosome 1 genomic contig; 1119049..1119348

| | |
|--|-----|
| <400> 58 | |
| taatatacat ttatataat atatgtataa tatattttat atatatgtaa tatatattt | 60 |
| atataatata tgtaatata attttatata tatgtatata atatttata taatataatgt | 120 |
| aatatatatt ttatataata tatgtatata atatttata taatataatgt aatataatatt | 180 |
| ttatataata tatgtatata atatttata taatataatgt aatataatatt ttatataata | 240 |

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tatgtaatat atatttata taatatatgt aatatatatt ttatatatat gtaatacata 300

<210> 59
<211> 617
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(617)
<223> MAR of chromosome 1 genomic contig; 3603613..3604229

<400> 59
aaaatataat atatataata tataatatat ataatatattt atatataaaa tatataat 60
ataatataata taataaaata tacataatata ataatgtata ataaaatata cataatata 120
aatatataat aaatatataa tatataatata ataataaaat atataatata taatataaa 180
taaaatataat aatatattat atataataaa atatataata tattatataat aataaaat 240
ataatatattt atatataata aaatatataa tatattatata atataaaaat atataatata 300
ttatataaa taaaatataat aatatattat atataataaa atatataata tataatata 360
aataatataat ataataatata atatataataa taaaatataat ataatatata atatataaa 420
taaaatataat aatatataat atatataata aaatatataat gatatataat atatataata 480
aaatatatga tatataatata atataataaa atatataata tataatataa tatataatata 540
atatactaaa aaatatataa tatataataa aaaatataata atatataata tatataatata 600
ataataaaat atatata 617

<210> 60
<211> 674
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(674)
<223> MAR of chromosome 1 genomic contig; 2592460..2593133

<400> 60
taagcttata tatataatata agcttatata tatataatata agcttatata tatatagaaa 60
gcttatataat atatagaaag cttatataata taagaagctt atatataaaa gcttatgtat 120
aaatataatata aaatataatttt atttatgctt atagatacat atataaatat atttattttat 180
atttatataat aaacatataat ttatataatata ttatataata tttattttat atataaataa 240
atataataata aataataaaat atatataata tattttatgt atttattata taaattttat 300
aatataataat ataataaaat aataattata taaatataata aatatctata aatataatata 360
aatataatata atatctataa atatataataa atataaatat atataatatc tataaatata 420

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| | |
|---|-----|
| gataaatata aatatatata atatctataa atatagataa atataaatat atataactat | 480 |
| atataaatat atataactat atataaatat atatataat atatataact atatataaa | 540 |
| ctatataat aaatatata aactatata ataaatata atataaatat atataactat | 600 |
| atatataat atatataact atatataat atatataaa atatataaa ctatataat | 660 |
| aaatatata ataa | 674 |

<210> 61
<211> 1694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1694)
<223> MAR of chromosome 1 genomic contig; 2891680..2893373

| | |
|--|------|
| <400> 61 | |
| atatgtataa catatattat atatgcata atacatgcata atgtatatac atatattata | 60 |
| tatgcataata tacatgcata tgtatataca tatataaagt atgattataat ataataatata | 120 |
| catgtatgt tatatacatgt tatatattat attatataatt atttatacat attattatgt | 180 |
| ctatataaa tataatataat acatattaat aatataatac ataataataat ataataatatt | 240 |
| atataataca taatataata taatataattata tataatacat aatataatata aatataattat | 300 |
| atgatacata atataatata atatattata tgatacataa tataatataa tacatattaa | 360 |
| taatataattta ttattattaa tataatataat acatattaat atacatacat atatattata | 420 |
| ttatataaa tatacatata atataatgt taatattata tataatataa tacataatata | 480 |
| aatacatatt aataatataat tattaataag ataataatata tgtatctata atatatacat | 540 |
| atatgtatata gtatgtatata attatagata tacatgttta tacatgtata tattatagat | 600 |
| atatacatgt atatacatgt atatattata gatatacata tgtatatacg tatataattat | 660 |
| agatatacat gtatatatgt atatataattata tagatataat atatacaaga atataagaat | 720 |
| atataataata taatataataa tacacataat acgtatataat tatatacata tgtatattat | 780 |
| atatgtacat atatacatgt atattatata tacatgtata ttatataac atgcataat | 840 |
| tatataatttt tatataataat atccatgtat attatgtata tttgtgtata ttatataac | 900 |
| atgtatattta tatatacatgt catattataat atattttat atataatatac catataatt | 960 |
| atgtatattt gtgtatattta tatatacaca tatattataat atacatggat attatataata | 1020 |
| cacatataattt atatatacat atatattata tatacacata tattatataat acatgtatata | 1080 |
| tatataataca cgtatattat atatacacac gtatattata tatacacgtat tattatataat | 1140 |
| acacacgtat attatataata cacgtatattt atatatacac acgtatattta tatatacaca | 1200 |

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| | |
|--|------|
| tatattatat atacacacgt atattatata tacacgtata ttatatacac acacgtatat | 1260 |
| tatatacaca cgtatattat atatacacac gtatattata tatacacgta tattatatac | 1320 |
| acacacgtat attatataca cacgtatatt atatatacac acgtatatta tatatacatg | 1380 |
| tatattatat atacatgtat attatataca cacatgtata ttatatacac atgtatatta | 1440 |
| tatatacaca tgtatattat atatgcattt atattatata tacacatgta tattatatac | 1500 |
| acacatgtat attatataca catatattat atatatacat gtatattatg tatacatata | 1560 |
| tattatatac acatgtatatt tatagataca tataattaa atatacatgt atattatgta | 1620 |
| tacatatacata ttaaatatac atgtatattg tatacatacata tattatatac acatgtatatt | 1680 |
| tacatgtata cata | 1694 |

<210> 62
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(587)
<223> MAR of chromosome 1 genomic contig; 3432560..3433146

| | |
|---|-----|
| gaatttatata tatatacgctt aatttatatac atatataata tatacaatata tattatata | 60 |
| tttatatacg atatatacaa tatattttttt atattatata tacaatataat aatataataat | 120 |
| atataatattt atatattata tattgtatattt aatataatattt atataacattt atataatata | 180 |
| taatattata tattatataat tgtatataat atatattata taacattata taatatac | 240 |
| tattatataat tataatataat aatataat aatataat agtataatattt atatataattt | 300 |
| tatataattt atataaatat atataatata atatataatata tataatataat attatataat | 360 |
| atataattttt atatattata tattttata taatataatata tataatataat attttttata | 420 |
| tataaaatata taatataataa taatataataa ttaatataatata atataatata caatataaa | 480 |
| tatataatata attaatataatata caatataataa tataatataatata atataatata | 540 |
| atataaaatataa tataatataatata tataatataatata atataatata | 587 |

<210> 63
<211> 313
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(313)
<223> MAR of chromosome 1 genomic contig; 3805392..3805704

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<400> 63
tatataatat gtatattatg taatattta tatagcatat atgtatatta tatataatct 60
tttatataata gtatataata tgtatattat atattatata attatataat tatgtattat 120
ataaaaatata ttatataata tataattata tatttttga aatatagatt atatataata 180
tatatggcag ttagctgaga tataatata attatctata ctatataata tatattat 240
atactctata ttatatatgt atatattata tataatata acatatataa tgtgtatata 300
ttatataataa taa 313

<210> 64
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(349)
<223> MAR of chromosome 1 genomic contig; 4521378..4521726

<400> 64
ttatatacac tatataatat gtatttat atacttata acactatata tgtatttata 60
tataattata tacacttata aatatgtatt tataatataat tatatacact atataatatg 120
tattttata taatttatata cactatataa tatgtatTTA tataatttg tatacactat 180
ataatgtata ttatatatata attgtatACA ctatataatg tatatttata tataattgt 240
tacactatata aatgtatatt tatgtataat tgtatacact atataatgtat tattttatgt 300
taattgtata taccatataa tgtatTTA tgtataattg tatatacc 349

<210> 65
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(500)
<223> MAR of chromosome 1 genomic contig; 3240166..3240665

<400> 65
ttaatataata atatattata tatatttata tattaatata taatataatat ttatataataa 60
tatatattat atatttatat tacatattat tataatgttaa tataatTTT atatatttat 120
atattttata tattttata ttatataattt atatattata tttatataattt atatatttat 180
attatattat tataatattat atttatataat tataatTTA tattatataat ttatataattg 240
tatatttata ttatataattt atatattgtat tttatataattt atatatttata atactatata 300
tattttata tattatataat ttatataTTA tataatTTA tataatattat atatTTTat 360

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| | |
|---|-----|
| attatatata tttatata ttatatttt atatattata tatatttata tatatttat | 420 |
| atatttat atatttata tttatata atatattata tatattttat ctatatttt | 480 |
| atatattaat atatattata | 500 |

<210> 66
<211> 866
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(866)
<223> MAR of chromosome 1 genomic contig; 409429..410294

| | |
|---|-----|
| <400> 66 | |
| atatatataa tatatttat atatttata ttatatat aatacatata ttatatat | 60 |
| aatatataat acatatatta tatatattat atatttata taatatataa tacatatatt | 120 |
| atatataata tataatataat aatatattat ataatataat tatataatta tataatataa | 180 |
| tataatataat aatattataat aattatataa tatatataat tatatttat attataaata | 240 |
| ttatataata tatatattac aaatatataat tatatatatt ataaatatta tataacatat | 300 |
| atattatata atatataataa tatataat atataaaaat ataatataa agatatataat | 360 |
| aatatatgat atatatgata tataatataat gatatataatg atatataaa tatatgat | 420 |
| atatgatata tatgatataat ataatataatg atatataatga tatatataatg atatgatata | 480 |
| tatgatataat gatatataatg atatataatga tatatgat atatgatata tatgatataat | 540 |
| gatatataatg atatataatga tatatgat atatgatata atatataatgata tgatatataat | 600 |
| aatatataatgat atatataatgata tatgatatgt aatatataatg atatattata tataatataat | 660 |
| aatatataaca taatataataa tatataatata ataatataa taatatgtga tataatataat | 720 |
| atatgatata tcatatataatgata tatatattat ataatataa taatatataat tataatataat | 780 |
| atatattata taatataatata aatatataat ataataataa tataagatata aagatataat | 840 |
| atatataata tataatataat ataataa | 866 |

<210> 67
<211> 335
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(335)
<223> MAR of chromosome 1 genomic contig; 614754..615088

<400> 67

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| | |
|---|-----|
| acccaatata tgtgtatata tgtatgtata tatacatata catacataca tatatgtaca | 60 |
| tacatatata catacataca tatatatgta catacatata tacatacata catatataca | 120 |
| tataacatat atacacacat atatacagat atacatatat acatacatat atacatataa | 180 |
| catatataca tacatatata catataaac acatacatat acatatatac atacaacata | 240 |
| tatacataca tatacacata tgtatataca catatatgta tacatatatg tatacatata | 300 |
| tgtatataca tatgtatata tatattgtta tata | 335 |

<210> 68
<211> 455
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(455)
<223> MAR of chromosome 1 genomic contig; 1299520..1299974

| | |
|--|-----|
| <400> 68 ggatatatat attattagt gttatattat tataatttat atatattatt atatataata | 60 |
| tattatatca tataatttat tataataat atattatatc atatatatta ttatataata | 120 |
| tattatatca tataatttat tataataat atatattata tataatttta tataataat | 180 |
| atattatata tattattatg tataatataat atattatata ttatttat atatataaat | 240 |
| tatataataa tataataatta attatacata tatacatata taagtataca tataatata | 300 |
| ttatatagtat tataaaata tataacaat atatttat atattatatt atatataaat | 360 |
| atatacaata tatttatatc atatattta tatatgatac atataatata tatttatat | 420 |
| gatataataat atatatcata tatgatataat aacat | 455 |

<210> 69
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(404)
<223> MAR of chromosome 1 genomic contig; 1970778..1971181

| | |
|---|-----|
| <400> 69 atataataata tataatata tcataatattg ttctatgtat attacatata | 60 |
| atatgcatta tatatttat attgcata atatgcatta tatatttat attgcata | 120 |
| atatgcatta tatatttat attgcata atatgcatta tatatttat attgcata | 180 |
| atatgcatta tatatttat attgcata atatgcatta tatatttat attgcata | 240 |
| atatgcatta tatatttat aatataaca catataat atataattt aatattt | 300 |

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| | |
|---|-----|
| tatataattta catttattat atatttatta tatataaata tattttata tattacttat | 360 |
| atattatata taatatatata aatatatata ttatataaa tata | 404 |

<210> 70
<211> 605
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(605)
<223> MAR of chromosome 1 genomic contig; 3562918..3563522

| | |
|--|-----|
| <400> 70 | |
| tatataatata aaatacatat atattatata tattatatat aatacatata ttatataatta | 60 |
| tatataatac acgtatataa tatataatata ataatacata taatataatat gataataat | 120 |
| acatataata tatatgatat ataatacata tataatataat atgatataata atacatataat | 180 |
| aatatataatt atatataata catatataat atatattata tataatacat atataatata | 240 |
| tattatataat aatacatata taatataatata tataatataat acatataaa tatataattat | 300 |
| ataatacata tataatataat attatataat acatgtatat aatataatatt atatataata | 360 |
| catatataatt atataataca tgtatataat atatattata tataatacat atatattata | 420 |
| tattatataat taatataattt atataatagt aatataataat attaataatat tatataattat | 480 |
| aatattataat ataatacata tattatataat aatataaata tataataac atatataata | 540 |
| cacatattat atataataca tatattatata ataataatata tattatataat aatataatag | 600 |
| taata | 605 |

<210> 71
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(317)
<223> MAR of chromosome 1 genomic contig; 189743..190059

| | |
|---|-----|
| <400> 71 | |
| tatttttat atttatata tataatattt tttatatgtat atatattata tataaaatta | 60 |
| tataattttta ctacatataa tatataaaat tatataattt tactacatata aatataaaa | 120 |
| attatataat tttactatata ataataatata aaattatata attttatata taatataat | 180 |
| tataatataat attatatgcata atataatata tattatataat tataatataat tgtatattt | 240 |
| tgtatataaa atatataata tataatataat ttatagacaa taatataaa tataatataat | 300 |

aaaattttat atataaa

<210> 72
<211> 522
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_binding
<222> (1)..(522)
<223> MAR of chromosome 1 genomic contig; 229111..229632
```

<400> 72 gatatatata ttttatata taaaagatat atattattta tatataaaaga tatatatatta 60
tatataataaa agatatatat tatttatata tataaaagat atatattt atatatgata 120
tatattattt atatatataa aagatatata tttatata tgatatatat tatttatata 180
taaaagatat atataaaaga tatatattat ttatatatat aaaagatata tatataaaag 240
atatatatta ttttatata taaatgatat atattattta tatataaaag atatatatta 300
tttatataaa agatatat attattata tatataaaag atatacatat aaaagatata 360
tatttatata taaaagatat atatattt atataaaaga tacatatatt tatatatata 420
aaagatatat atattttat atataaaata tatattatat atataaaaga tatatataaa 480
tatatatatac ttttatataaaa agatata tataaata ta 522

<210> 73
<211> 1110
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_binding
<222> (1)..(1110)
<223> MAR of chromosome 1 genomic contig: 1138030..1139139
```

<400> 73 tatgtatgta tacataatat attatatatg tatattatgt atacataata tattatatat 60
gtatattatg tatacataat atattatata tgtatattat gtatacataa tatattatat 120
attatatgtat tattatgtat acataatata ttatatatta tatgtatatt atgtatacat 180
aatatattat atattatatg tatattatgt atacataata tattatatat tatatgtata 240
ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatattatat 300
attatatgtat tattatgtat acataatata ttatatatta tatgtatatt atgtatacat 360
aatatattat atattatatg tatattatgt atacataata tattatatat tatatgtata 420
ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatattatat 480
attatatgtat tattatgtat acataatatt tatatattat atgtatatta tgtatacata 540

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| | |
|--|------|
| atatatata tattatatgt atattatgt tacataaat gtacacataa tatttatata | 600 |
| ttatatgtat attatgtata cataatattt atatattata tgtatattat gtatacataa | 660 |
| tatttatata ttatatgtat attatgtata cataatattt atatattata tgtatattat | 720 |
| gtatacataa tatTTTata ttatatgtat attatgtata cataatata tataattat | 780 |
| atgtatatta tgtatacata atatattata tattatatgt atattatgt tacataaat | 840 |
| attatattat atatgtat atatgtatca taatattt atattatgt tataattatgt | 900 |
| atacataata tattatata tataatgtata ttatgtatac ataatatatt atatattata | 960 |
| tgtatattat gtatacataa tatattatata attatataatg tataattatgt atacataata | 1020 |
| tattatata tataatgtat tattatgtat tataattatata attatgtata ttatagatta | 1080 |
| tgtatgcata cataatatgt attgtatatt | 1110 |

<210> 74
<211> 521
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(521)
<223> MAR of chromosome 1 genomic contig; 2863407..2863927

| | |
|---|-----|
| aatatatata aatatataaa tataatataaa tataatataca tataatata taaatatata | 60 |
| tatgtaaata tatgtaaata tatgtaaata tatgtatatg tataatata taaatgtatg | 120 |
| taaatatata taaatataatg taaatataata taaatatacg taaatataata aatataatata | 180 |
| actatatata aatataatata aatataaata tataatataata tataatataata tataatata | 240 |
| taaataaata catataaataata tataatataaa tacatataaa tataatataaa tatataaaaa | 300 |
| tataatataaa tataatataata aatataatataaa catatataaa tataatataata tatataaata | 360 |
| tataatataca taaaatataat aatataatataaa atatataataa atatataataa atatagataa | 420 |
| atatagataa atatataaaat atatataaaat atataatataat agataatataat ataaatataat | 480 |
| aaatataaaat atataaaaaat atatataaaat atataaaaaat a | 521 |

<210> 75
<211> 560
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(560)
<223> MAR of chromosome 1 genomic contig; 5712303..5712869

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<400> 75
atataattat atatatatta tatatttatata ataattatata attatatata atgtataatt 60
atatattata tataatataat ataaatataat atattttta tataaatata ttatataattt 120
atatattata tataaattta tatataaaa tttttatata ttatataat ttatataatta 180
tatattgtat atatttatata attacatatt gtatataattt atatattata tattatataat 240
ttatataatta tatattataat atttatataat tatatattat atatatttat atattatata 300
taaattattt atatataata tataaataata tattatataa tataaatttg tataataat 360
atatatttat atttatataaa aatattttat atttatataaa aatataataa taaatataata 420
catataatat atatattata tatttataat tatatattat atataataca tataatataat 480
aatatataat acatatataat catatatgaa atatataatca tatatttatac atattatata 540
taacatataat atttatatac 560

<210> 76
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(479)
<223> MAR of chromosome 1 genomic contig; 8578812..8579290

<400> 76
tatggatac atatagtata tatgggtac atatatggta tatatatggg ttatataat 60
gatatatatt atatatgtat atggtatata tatggtatata atttataaca tgcataatgg 120
atgtatatgg tatatatatg atatatacat atggtgtata tatatgttat atatgatata 180
tataaggtat atatatggta tatataaggt atatatagtat tatatatggt atatataagg 240
tatatattgt atatataatgg tatatataag gtatataat tttatataatg gtatataat 300
ggtttatata tatggtgtgt atatatggtg tttatataaca cactttatata actatataatt 360
atatacacac tatatataat atatattata tatagttaaa tatatggat atgcaatttag 420
atatatggta tatgtatattat tatatatggt atatagatgg tttatataatg gtatataata 479

<210> 77
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(477)
<223> MAR of chromosome 1 genomic contig; 8579294..8579770

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<400> 77
tatagtatat atacacacta taggtatat actacatatt atatacacac tataaataaa 60
atataataa tataatattt tctatatagt atatattata tattgtatat actatatata 120
atataacta tagacagtag atacttata tactatagac agtataact atatactgta 180
tacactatag acagtatata ctatatactg tatacagtg atgtatgtat tatgtatgt 240
atataatata tagtatata tatctatact atatacagta tatatagtgt atacataata 300
tatattatat atttatataa ctatatacag tatacatatgt gtatatgtat tgtataat 360
atataatgtg tatataaaaat atatatacta tatataatata atattatata taatataaac 420
actatatata ctatagatac actatatatt cactatatac actatatata ctatata 477

<210> 78
<211> 331
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(331)
<223> MAR of chromosome 1 genomic contig; 8580024..8580354

<400> 78
actatatgtt atatacataa gatatagtat ataccatata ttatatacat tataatagt 60
gtatactata tataatgtat ataataatata gtatatacac actatatactat ctatgtat 120
atacactata tatactatgt atatatacac tataatatact atgtatatact acactatata 180
tactatgtat atatacacta tataatactat gtatatacac actatatactat ctatgtat 240
atacactata tatactatgt atatatacac tataatatact atgtatatact atgtatata 300
tactgtat atgtatgtat atatatacgta t 331

<210> 79
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(410)
<223> MAR of chromosome 1 genomic contig; 8580705..8581114

<400> 79
tatagtctat atttatataca gtctatataa tatatagtat atactatata tactttcct 60
cattctgact atatactata tataactat atatagtata tgtatgtat atatacacca 120
tatatactat atatagtata cataccatata atatgtatatac atacatacca tatatagtat 180
acataccgta tatatgtatatac tatacttacc atatatagta tacatactat atataatata 240

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| | |
|--|-----|
| tctggtgtat atatacacta tatatactat atatactata tatagtatat gtacactatt | 300 |
| tatagtattt atagtatata tactgtatat atagtatgta gtatatacac tatatattat | 360 |
| gtagactata tataatatacg actatgtgta gagttatata ctatataata | 410 |
| | |
| <210> 80 | |
| <211> 433 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(433) | |
| <223> MAR of chromosome 1 genomic contig; 12979167..12979599 | |
| | |
| <400> 80 | |
| atataataata tatataatgtc ctatataaa aatatacat atatataat atatatgata | 60 |
| tattttat attaaatata taattatata taaatataata ttatataata aatatattat | 120 |
| ttcaatataat ataaatataat taaaatataat taaaatagaat taaaatata ataaatataat | 180 |
| aattatattt aatataataaa tatataattaa atatataatt atattaata tatataaata | 240 |
| tatattaaat atataattat atatttatat atttattata taaaatata tatttgttct | 300 |
| aaataaaat atattctaaa tatataatata ttatattat ataataatata atataaaata | 360 |
| tataataaaat atataatata taaataaaata aatatttatt ataaaataca taaaatatt | 420 |
| aaatataatata taa | 433 |
| | |
| <210> 81 | |
| <211> 385 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(385) | |
| <223> MAR of chromosome 1 genomic contig; 16336644..16337028 | |
| | |
| <400> 81 | |
| tttatataaa tatctatata aataaaataata taaatataata aatataaaata tatataaata | 60 |
| tataaataaa tatataaaata tatataaaata taaatataata tataactatg aatttatatt | 120 |
| tatataaata tatatctata tgaatataaa tatatattta taaaatata aatataatata | 180 |
| taaataatata tatttatata gatataaaata tatataaaa tatataattat tatatagata | 240 |
| taaataatata tcctatataatg aatataatatac tataggaata taaaatataata tcctataaaa | 300 |
| tataaaatata tataagtata aatataatata aatataatatac tatataaaata taaaatataata | 360 |
| tataaaatata aatataatataata taaaat | 385 |

<210> 82
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(363)
<223> MAR of chromosome 1 genomic contig; 20624448..20624810

| | |
|---|-----|
| <400> 82 | |
| tatatatata gttatata tatttatata tatagttata tatatattt tatatagtta | 60 |
| tatatatagt tatatatata gttatata tatagttata tatatagtta tatatatagt | 120 |
| tatatatata tagttata tatagttata tatatagtta tatatatagt tatatatata | 180 |
| tagttata tatagttata tatatatagt tatatatata gttatata tatagttata | 240 |
| tatatagtta tatatatagt tatatatata gttatata tagttata tatatagtta | 300 |
| tatatatata gttatata tatagttata tatatagtta tatatatata gttatata | 360 |
| tag | 363 |

<210> 83
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(310)
<223> MAR of chromosome 1 genomic contig; 566025..566334

| | |
|--|-----|
| <400> 83 | |
| tatataaat atatattgta tatattatat attgtatata taatataat tgttatatt | 60 |
| atatattgta tatataat atattgtata tatttatat tgttatata atatataat | 120 |
| tgttatatt atatattgta tatataat atatattgta tatttatat attgtatata | 180 |
| taatataat attgtatata ttatatttg tataataat atatatttg tatttatatt | 240 |
| atattgtata tataataat atattgtata tatttatat agtataattt atatatagt | 300 |
| tatataat | 310 |

<210> 84
<211> 1236
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1236)
<223> MAR of chromosome 1 genomic contig; 1171429..1172664

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<400> 84
aaagtattat atgtattata tgtatatgta ttatataatta catatgtatt atatataata 60
tatattatat attattatat attatataatt atatattatt atttatataa tgtattat 120
attatatagt atatatagtat tatataatgt attatataatt atatagtata tatagtat 180
ataatgtatt atatatagtat tatataatgt attatatagt atatatacta tataatgtat 240
tacatattat gtatagtata tgtaatgtat tatataattat atagtatatg taatgtat 300
tatgtattat atagtatata ttatataatga tgtattat 111 agtatata atatataatga 360
tgtattat aacatataata atataatatga tgtattat 111 agcatgtata gtatataatga 420
tgtattat 111 agcatgtata gtatataatga tgtattat 111 atagcatgtat tagtataat 480
gatgtattat atatagcatg tatagtatat atgatgtatt atatatacg tatagtat 540
atatgtat 111 ttatataatag catgtat 111 atatgtat 111 tattataat 111 agcatgtata 600
gtatataatga tgtattat 111 atagcatgtat tagtataat 111 gatgtattat atatagcatg 660
tatagtatat atgatgtatt atatatacg tatagtat 111 atatgtat 111 ttatataatag 720
catgtat 111 atatgtat 111 tattataat 111 agcatgtata gtatataatga tgtattat 780
attatataatg gtatataatga tgtattat 111 attatatacg gtatataatga tgtattat 840
attatataatg gtatataatga tgtattat 111 attatataatga tgtattat 111 atatataatga 900
attatataatata atatataatga tgtattat 111 atgatgtatt atatataata tatagtat 960
attatataatata ttattatcta ttatatacg tatagtat 111 gcaagttatt atgtataata 1020
tataatgtat tataatattat ataatgtata atatataat atataaatat ataaatgtat 1080
ataaaatatacg aaatataac attatacatt atatacattta taatgtataa tataaaata 1140
tattataat 111 aaatgtatac attatataat aatataattat atacattata tataaaatat 1200
gtatataat 111 attatacctt atataacta aacagt 1236

<210> 85
<211> 309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(309)
<223> MAR of chromosome 1 genomic contig; 1925173..1925481

<400> 85
atataattat ataaatataat tttatataaa tatataattat ataatattat aatataatgtt 60
atattatata tattttatac aatataat atatattata tatattttat acaatata 120
atataatata tataatatttt atataatata taatataat tatataatatt ttatacaata 180
tataatataat attatataatt atataatata tattataat attttatata atatataata 240

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| | |
|--|-----|
| tatattttat acaatatata atgtatatca ttatattata taatgtatat catattatat | 300 |
| aatgtatat | 309 |
| <210> 86 | |
| <211> 312 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(312) | |
| <223> MAR of chromosome 1 genomic contig; 4396756..4397067 | |
| <400> 86 | |
| cacagtgtat atatagtata tatactgtat atatactgtg tatatacact gtatatacac | 60 |
| agtgtatata cagtatatat actatataata cactgtgtat atatagtata tataaattct | 120 |
| aggaatatat atactatata tatactatata atataaattc taggaatata tacacactat | 180 |
| atatacacta tatatacaca tatatacact atatataatta tacacatata ttatatatat | 240 |
| acactatata tacacgagat atataacata tacactatat actatacata acatatac | 300 |
| tatataact at | 312 |
| <210> 87 | |
| <211> 398 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(398) | |
| <223> MAR of chromosome 1 genomic contig; 56057..56454 | |
| <400> 87 | |
| atataatata catattatat atataatata tattatataa tatattattat attatataat | 60 |
| atataatata aatataatata aaattatatt atataatata taatataaat ataataaaaa | 120 |
| ttatataaat ataataatata ttttattata taatataata tatattatata aaatataata | 180 |
| tataaattat ataataatata atatattata taatataata tattttatta tataaatata | 240 |
| tattatatta tataatataat ttttattat ataataatata ttatataat atagaatata | 300 |
| atataatattt tattatataaa tatataattat ataataatata ttatattat atataacata | 360 |
| tattattata taaaatatgt ataataatata ttatataaa | 398 |
| <210> 88 | |
| <211> 391 | |
| <212> DNA | |
| <213> Homo sapiens | |

<220>
 <221> misc_binding
 <222> (1)..(391)
 <223> MAR of chromosome 1 genomic contig; 56984..57374

| | |
|---|-----|
| <400> 88 | |
| tactataata catattatat ataatattat atactatata ttactatatt attatattat | 60 |
| atataatcaa actatattat agtatataat atataatata tactatatgt aatattacta | 120 |
| tgatactgat attatattat atataatcaa attatattat attaatatat aaattatata | 180 |
| taatacataa tatataaaatt atattatatt atttatataat aatgtatgcc atataattta | 240 |
| tatataatgc atttatata atttatataat aatgcattaa atataaatta tatataatgc | 300 |
| atttatata atttatata atgcattata tataattttt atttaatata taaatttata | 360 |
| tttaatatat ttatatatta tatataataa a | 391 |

<210> 89
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(309)
 <223> MAR of chromosome 1 genomic contig; 469547..469855

| | |
|--|-----|
| <400> 89 | |
| atatatatgt aatatatatgt ttatatatgt aatatatatg ttatgttata tatgttatat | 60 |
| atatgttata tataatatat atgttatata tacgttatat gttatata tgtttatat | 120 |
| aatatatgtt atatatacgt tatatgttat atatgttata tataatatat gttatata | 180 |
| atatatgtta tatatgttat atataatata tgtttatat atttatata atatatgtta | 240 |
| tatatattat atataatata taatatatgt gatatataat ataaaatata tgtgatatat | 300 |
| atttatatat | 309 |

<210> 90
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(441)
 <223> MAR of chromosome 1 genomic contig; 546190..546630

| | |
|---|-----|
| <400> 90 | |
| atacacaca tatgtgtata tatatagtat atatacacaa catatgtgtat tatatatagt | 60 |
| atataatacac aatatatgtg tatatataatac gtatataac acaatataatg tgttatata | 120 |

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| | |
|---|-----|
| gtataaat atactatata tagtatatat agtataaaata tatactatat atagtatata | 180 |
| catagtataa atatatacta tatatagtat atacatagta taaatatata ctatatatag | 240 |
| tatatacata gtataaatat atactatata tagtatatac atagtataaa tatatactat | 300 |
| atatagtata tacatagtat aaatatatac tatatatagt atatacatag tataaatata | 360 |
| tactatatat agtatataca tagtataat atatactata tatagtatat acatagtata | 420 |
| aatatatact atatatagtat t | 441 |

<210> 91
<211> 1367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1367)
<223> MAR of chromosome 1 genomic contig; 124643..126009

| | |
|--|------|
| <400> 91 | |
| atatttatat gatatataat atatataata ttatataataa tattatatat gatatataac | 60 |
| attatataat attatatatg atatataatta tatatattat atatgatata taatataat | 120 |
| aatatttat atgatattat atatcatata taatataaa aatatttat atgatata | 180 |
| atatataaa tattatatat attatataa ttatatatca tatataatat tctaaatata | 240 |
| taatattata tgatataaa gattatatac attatataa atatataata ttatatatga | 300 |
| tatataatat tatatacatt atatataata tataatgtat ataattattat atattatata | 360 |
| tttattat atacaatgtat tataatatta tatatcatat atatttatat tatatacaat | 420 |
| gtatataata ttatatatca tatataatat tatatacaat gtatataata tatattat | 480 |
| atatttatat tatatacaat gtatataata tatattatat atatttatat tatatacaat | 540 |
| gtatataata tatatttatat atatttatat tatatacaat gtatacaata ttatattat | 600 |
| tatatttatat atttatatta tatacaatgt atatattata tattatatat ttatattat | 660 |
| tacaatgtat atatttatata ttatattattt atttatataa caatgtatat atttatatt | 720 |
| atatatttat atttatataca atgtatatat tatatattat atttttatat tatatacaat | 780 |
| gtatatatta tatatttatat attttatatta tatataatgt atgtatattt atttatata | 840 |
| tatttatattt atatataatg tatgtatatt tatatattat atttttatat tatataat | 900 |
| gtatgtatata ttatattatta tatatttata ttatataaa tgtatgtat atttatatt | 960 |
| atatatttat atttatataa atgtatgtaa tattatatat tatatattta tattatatat | 1020 |
| aatgtatgtat atatttatata ttatattttt atttatataa taatgtatgt aatatttat | 1080 |
| atttatattt tatatttatat ataatgtatg taatattata tattatatat ttatattata | 1140 |

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| | |
|---|------|
| tataatgtat gtaatattat atattatata tttatattat atataatgta tgtaatatta | 1200 |
| tatattatat atttatatta tatataatgt atataatatt atatattata tatttatatt | 1260 |
| gtatataata ttatatatta tatatttata ttgtatataa tatatattat atatttat | 1320 |
| tgtatataat atttatattt atatatttattt atttatataa atgtata | 1367 |

<210> 92
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(458)
<223> MAR of chromosome 1 genomic contig; 58908..59365

| | |
|---|-----|
| <400> 92 | |
| tatatgatat atatgatata tatggatat atatgatata tatgatatat atggatata | 60 |
| tatgatatat agtatatag atatatatgg tatatatatg atatataatgta tatatgatat | 120 |
| atatggata tatgatatat agtatatag atatatatgg tatatatggt atatataatga | 180 |
| tatatgatat atatgatata tatgatatat gatatatatg atatataatga tatatatgg | 240 |
| atatataatgata tatatggat atatggata tatgatatat atatgatata tatggatata | 300 |
| atatgatata tatgatatat atggtatata tatgatatat atgatatata tggatataat | 360 |
| atgatatata tgatatataat ggtatataat tgatatataat gatatataatc atatataatgg | 420 |
| tatataatatg atatataatga tatatatcat atatataatgg | 458 |

<210> 93
<211> 330
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(330)
<223> MAR of chromosome 1 genomic contig; 306867..307196

| | |
|--|-----|
| <400> 93 | |
| ataaatatata aatataatatg atatataatct atatataatca tatataaataa tatatgatat | 60 |
| atatctatata atatcatata taaatataatgata tgatataataa atatataatga tatatataatcta | 120 |
| tatataatcat atataaataat atatgatata taaatataatgata tgatataataat ctatataat | 180 |
| catatataaaa tatataatgat atatataatctat atatcatata taaatataatgata tgatataataat | 240 |
| ctatataataat catatataaaa tatataatgat atctatctat atatataatcata tataaaatata | 300 |
| tatgatataatct atctatataat atcatataat | 330 |

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<210> 94
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(353)
<223> MAR of chromosome 1 genomic contig; 636899..637251

| | |
|---|-----|
| <400> 94 | |
| tatgtataca tatacacata tacgtatata tatacatata tacacatata cgtatatata | 60 |
| tacgtataca tacatatgtt tatgtatacg tatacacaca tatgtatatg tatacgata | 120 |
| cacacatata cgtatatatg tatacgata cacacatata cgtatatgtt tacatatata | 180 |
| tgtgtacata tacgtatata cgtatatgtt tacatatata cgtttatgtt tatatacgta | 240 |
| tatacgata tatgtatatg tatacatata tacatatatg tgtatatacg tatatacgta | 300 |
| tatgtgtata tatacaaatat acatacatgc acatatatgtt gtatatgcac ata | 353 |

<210> 95
<211> 345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(345)
<223> MAR of chromosome 1 genomic contig; 1435510..1435854

| | |
|--|-----|
| <400> 95 | |
| atcatatatata ttatatatca tatatatgtt atataaaaat tatatatcat atatatgtata | 60 |
| tataaaaatt atatatatca tatataatat atataatata ttatatatat aaatttatata | 120 |
| taatatatat aaatttatata tatcatatat atgatatata atttatatat catatatatg | 180 |
| atatatataaa tatattattt atatataata tattatatat tatataatat gtaatatata | 240 |
| ttatatatata catattatat tatttataaa taatatttttta taatatatat aatattatat | 300 |
| aatatagaat atttatattt atatattaca tattatataaa tataat | 345 |

<210> 96
<211> 521
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(521)
<223> MAR of chromosome 1 genomic contig; 39695..40215

<400> 96

| | |
|---|----|
| tatatatata atagatatta tatatctatt atatatctat tatatatata atagatatta | 60 |
|---|----|

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| | |
|--|-----|
| tatatctatt atatatataa tagatattat atatctatta tatatataat agatattata | 120 |
| tatctattat atataatata tatctattat atattatata tctattatat ataataatata | 180 |
| tctattatat atattatata tctattatat atataataga tattatatat ctattatata | 240 |
| taatatatat ctattatata ttatatatct attatata tttatcttatt atatataatta | 300 |
| tgtatctatt atatataata tatatctatt atatataat tatatataat atatattata | 360 |
| tatattatat atctattata tataatataat atctattata tatattatat atctattata | 420 |
| tatattatat atctattata tataatataat atctattata tatattatat atctattata | 480 |
| tataatataat attatataata tattatataat tgtatctatca t | 521 |

<210> 97
<211> 484
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(484)
<223> MAR of chromosome 1 genomic contig; 1286007..1286490

| | |
|--|-----|
| <400> 97 atatcatata tattatataat catatatatg atatataaaa attatataatc atatataatga | 60 |
| tatataaaaa ttatataat catatataat atatataata tattatataat ataaattata | 120 |
| tataatatta tatataaaatt atatatcaca tatatgacat ataaattata ttcacatata | 180 |
| atgatataattt atttatataat cacatataatg atatataattt tttatatcat atatataatgata | 240 |
| tataattttt atatcatata tatgatataat aatttatata tcatatataat gatataatata | 300 |
| atatattattt tttatataat atattatata ttatataataa tgtaatataat attatataattt | 360 |
| atataatataatg taatataat tttatattac atattatattt atttataaat aatattttat | 420 |
| aatataatata atattatata atatagaata ttatataat tttatatcat attatataat | 480 |
| atataatataat | 484 |

<210> 98
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(244)
<223> MAR of chromosome 1 genomic contig; 73556..73879

| | |
|---|----|
| <400> 98 attatataattt atattatata atatataata atattatata attatataattt acattatata | 60 |
|---|----|

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| | |
|---|-----|
| atataataata atattatata ataatatata attatataat atataataat attatataat | 120 |
| attatataat attatataat atataaatat ataataatat atattatatt atataatagt | 180 |
| atatatata ttatataata tatgttatta tattatataa tataaactat tatataatat | 240 |
| aata | 244 |
| | |
| <210> 99 | |
| <211> 463 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(463) | |
| <223> MAR of chromosome 1 genomic contig; 179038..179500 | |
| | |
| <400> 99 | |
| tacaatatat ttcttattat atatatttg tattatataat aatatacaat atatttcta | 60 |
| ttatataaa tatattttgt attatataat ttacaatata ttttgttata tataatataat | 120 |
| aatacaatat aatatattgt attatataat atataactt atataatata ttgttattata | 180 |
| tattatataat aatacttat aatatatttt attatataatt atatataata ctatataata | 240 |
| tattttatta tatatttatata ataatacaat atataatata ttgttattata atacaatgta | 300 |
| ttataatgta ttatataataa tatataatac aatataatattt attatataata tttatataata | 360 |
| tatataatttt gtatttatata ttttgttata tatataatttt gtatttatata tttatataat | 420 |
| atattataat tatgtttgc attatataatt tcattataat tat | 463 |
| | |
| <210> 100 | |
| <211> 390 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(390) | |
| <223> MAR of chromosome 1 genomic contig; 55617..56006 | |
| | |
| <400> 100 | |
| tgtataatata atatacttta tatataatata atatacttta tatataactt atataactat | 60 |
| atataataata tataacttatata atataatata ctaatataata taatataac actatataata | 120 |
| atataatatactt atataatata tataactttt atataatata tactaatata tataatataat | 180 |
| atactttata tataatataat actaatatata ataatgtata tactttatata atataatata | 240 |
| ctaatataata atataatatac tttatataata atataactt atataatata tataacttt | 300 |
| atataatataaa tatataacttta tatatttatata atgccttatata atataatata cactaatata | 360 |
| taatataatata actttatata ttatattttta | 390 |

<210> 101
<211> 582
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(582)
<223> MAR of chromosome 2 genomic contig; 1157405..1157986

| | |
|--|-----|
| <400> 101 | |
| tgtatatgtatatacatatacaca tacgcacata tatgttatgtatatacatatacaca | 60 |
| tatatacatata ttttttttttatacacatacaca cacatacgca catatatgtatatacatata | 120 |
| tatatacatata tacacatata ttttttttttatacatatacaca ttttttttttatacatata | 180 |
| tatatacatata catatacaca ttttttttttatacatata ttttttttttatacatata | 240 |
| ttttttttttatacatatacaca tacacatata ttttttttttatacatata ttttttttttatacatata | 300 |
| cacatacatata catatatgtatata ttttttttttatacatata ttttttttttatacatata | 360 |
| tttttttttatacatatacaca ttttttttttatacatata ttttttttttatacatata | 420 |
| tttttttttatacatatacaca ttttttttttatacatata ttttttttttatacatata | 480 |
| tttttttttatacatatacaca ttttttttttatacatata ttttttttttatacatata | 540 |
| tttttttttatacatatacaca ttttttttttatacatata ttttttttttatacatata | 582 |

<210> 102
<211> 322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(322)
<223> MAR of chromosome 2 genomic contig; 1858638..1858959

| | |
|--|-----|
| <400> 102 | |
| tttttttttatacatatacaca tacaccatata atatacatacata cccatatacatata acataccata | 60 |
| tttttttttatacatatacaca tacaccatata atatacatacata cccatatacatata acataccata | 120 |
| tttttttttatacatatacaca tacaccatata atatacatacata cccatatacatata acataccata | 180 |
| tttttttttatacatatacaca tacaccatata atatacatacata cccatatacatata acataccata | 240 |
| tttttttttatacatatacaca tacaccatata atatacatacata cccatatacatata acataccata | 300 |
| tttttttttatacatatacaca tacaccatata atatacatacata cccatatacatata acataccata | 322 |

<210> 103
<211> 914
<212> DNA

<213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(914)
 <223> MAR of chromosome 2 genomic contig; 5712196..5713109

| | | | | | | |
|--------------|-------------|------------|-------------|-------------|-------------|-----|
| <400> | 103 | | | | | |
| aaatatatatat | tctatatata | gaaaatatat | attctatata | tatagaatat | atatagaata | 60 |
| tatattctat | atatattcta | tatatataga | atatatata | aaaacatata | ttctatata | 120 |
| aaaatatata | ttctatata | ataaaatata | tattctata | atatagaatg | tatataaaat | 180 |
| atatattcta | tatatataga | atgtatataa | aatatataatt | ctatataat | agaatgtata | 240 |
| taaaatatata | attctatata | tatagaatgt | atataaaata | tatattctat | atatataagaa | 300 |
| tatatataac | atatatatga | aatatataa | aaatatataat | aaatacatat | ttctatata | 360 |
| aaatatataat | aaatacatat | ttctatata | aaatatataat | caatacatat | ttctatata | 420 |
| aaatatataat | aaatatataat | tcataatata | aaaaatataat | aaatatataat | tcataatata | 480 |
| aaaatatata | tgaatata | ttctctata | ataaaatata | tataatataat | atttatata | 540 |
| taaaatatata | ataatata | ttatataat | aaaatata | taatataat | tcataatata | 600 |
| aaattatata | taaatata | ttcatatata | taatataat | aaatatttata | ttcatatata | 660 |
| aaatatattt | aaatatata | ttctatata | aatatataat | ctatataaa | aatatata | 720 |
| taaaatatata | ttctatata | aaatataat | gaaatata | gaatataat | aaatataat | 780 |
| tatataact | atatacataa | tatattat | atataaaata | tatatacaat | atatattcta | 840 |
| tatattaata | tatagaatat | atattaacat | atattcaat | atattaat | atgaaatata | 900 |
| tataaatatt | tcata | | | | | 914 |

<210> 104
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(370)
 <223> MAR of chromosome 2 genomic contig; 5713613..5713982

| | | | | | | |
|-----------|-------------|-------------|-------------|-------------|------------|-----|
| <400> | 104 | | | | | |
| tatttcata | ataatata | tataaaat | atatttcata | tacataat | atataatata | 60 |
| aataaaat | atatttcata | tatataat | atataatata | tataaaacat | atatttcata | 120 |
| tataatata | ataaaactata | tatttcata | ataatata | taaactata | atttcatata | 180 |
| cataatata | ataatata | tttcatttata | atttatata | taatataat | ttcatatata | 240 |
| taatataaa | aatagatata | aatatata | aatatataatt | tcataatataa | tatataaaa | 300 |

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| | |
|---|-----|
| atatatatta atatatattt tatataataat atatatattt catatataaa tataaaaaaaa | 360 |
| tatataatttc | 370 |

<210> 105
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(442)
<223> MAR of chromosome 2 genomic contig; 7481647..7482088

| | |
|--|-----|
| <400> 105 | |
| atataaatta tataatatgt tatataatat ataaatatat tatataacat gttatataat | 60 |
| atataacatg ttatataata tataacatgt tatataatat ataacatgtt atataatata | 120 |
| taacatgtt tataatatat tatgtaatat gttatataat atataatata ttatataaca | 180 |
| tgttatataa tataaaacat gttatataat atgttatata atatataaat atattatatt | 240 |
| atatgttata taatataata atatattata ttatatgtt tataatatat aaatataatta | 300 |
| tattatatgt tataaaatat ataaatatat tatattgtat gttatataat atataaataat | 360 |
| attatattgt atgttatata atatataaat atattatatt gtatgttata taatataaa | 420 |
| atatattata ttatatatgt ta | 442 |

<210> 106
<211> 338
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(338)
<223> MAR of chromosome 2 genomic contig; 9594557..9594894

| | |
|---|-----|
| <400> 106 | |
| tatataaaata tataccatat atataaatat atatattcca tatataaata tatataattcc | 60 |
| atatatataa atatataatat tccatatata aatataataa ttccatatata ataaatataat | 120 |
| atataaaatat atatattcca tatataataa tatataatata aatataataa ttcatatata | 180 |
| aatataatata tattccatat ataaaaatat atatataattc catatataaa aatataatata | 240 |
| tattccatat atataaaatat atatataattc catatataata aatataatata tattccatat | 300 |
| atataaaatat atatataattc catatataata aatataata | 338 |

<210> 107
<211> 364
<212> DNA

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<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(364)
<223> MAR of chromosome 2 genomic contig; 10519720..10520083

<400> 107
ttatatatat ttataataat atatataagc tatatatatt tataatataat atattatata 60
tattagctat atatatttat ataataatat attatatatt agctatatat atttatatat 120
aataatata ataaagctata tatttatata tattatataat tagctatata tatttatata 180
taatatatta tatatttagct atatatttat atataataaa taatatataat attagctata 240
tatatttata tataataata tatataagct atatatttat atataatata ttatatatta 300
gctatatata tttatatata ataatatatt atatattagc tatatatatt tataatataat 360
atat 364

<210> 108
<211> 342
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(342)
<223> MAR of chromosome 2 genomic contig; 11481943..11482284

<400> 108
tacatataat atataattat atataatata tatttatata tacatatata atatataat 60
tacatatgtat atatataatat tatatatgtat atatataatata tataatgtat atatataat 120
tatatgtat atatattata tatatgtat atatataatata tataatgtat atatataat 180
tatgtat atatatgtaa tatatatata atatataatgt aatatataata taatataat 240
gtaatataata tataatataat atgtatata tatattataat atatgtatata tataatcatat 300
atatgtatata tataatcatat atatgtatata tataatcatat at 342

<210> 109
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(415)
<223> MAR of chromosome 2 genomic contig; 13499598..13500012

<400> 109
tatatatata tataatata atataatata atatataatata aaatataatata aatataaatt 60

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| | |
|---|-----|
| tatatatata tatttatata tacatatata aatatattat tatattata tataaatata | 120 |
| tataaatata tataaatata tatttatata tacatatata aatatatag ttcatataaa | 180 |
| tatatatgtatatacata tataaatata tatttatata gtatatatat aatataatat | 240 |
| ataataataa tataatataat attatataaa tataatataat tatatataat atatataata | 300 |
| tataatataat aatatataat atataatata tatttatata tatataatata ataaaatata | 360 |
| tatttatataa tataatataaca taatatataat aaataaatat atataaagat ataaa | 415 |

<210> 110
<211> 330
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(330)
<223> MAR of chromosome 2 genomic contig; 16370976..16371305

| | |
|--|-----|
| <400> 110 cattacata tgtatgtata agtatgtata ttacatactt atacatacat acttataat | 60 |
| atataagtat aatacataca tacttataaa tatataagta taatacatac atacttatac | 120 |
| atatataagt ataatacata catacttata catatataag tataatacat acatacttat | 180 |
| acatatataa gtataataca tacatactta tacatataag tataatacat acatacttat | 240 |
| acatatataa gtataataca tacatactta tacatataata agtataatac atacttatta | 300 |
| catatgtata taagtatatt acatacttat | 330 |

<210> 111
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(702)
<223> MAR of chromosome 2 genomic contig; 626641..627342

| | |
|---|-----|
| <400> 111 tatatatatacata tataatataat atacatatac atatataatata tataatataca | 60 |
| tatattacat atatcatata tacatataata ttatatac atatataatata tataatatacat | 120 |
| atatacatat atatattata tatttatata atcatataata catatataat atatataatata | 180 |
| tatataatcat atatacatat atattatata tatttatata atcatataat atatataatc | 240 |
| atataaacat atatattata tataatcatat atacatataat attatataata ttatataatata | 300 |
| catatataaca tataatattat atatatcata tataatataat attatataata ttatataataa | 360 |
| tatataattat atatacatat atattatata tacatataata ttatatac atatataatata | 420 |

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| | |
|---|-----|
| tatatacata tatatttat atacatatat attatatata tacatatata ttatatac | 480 |
| atatatatta tatatacata tatttatat acatatatat tatatacata tatatttat | 540 |
| atacacat atatttata tacatatatt atatatatac atatatatta tatatacata | 600 |
| tatttatat atacatatat attatatata catatattat atatacatat atatttata | 660 |
| tacatatata ttttatat atataatata tattttat at | 702 |

<210> 112
<211> 679
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(679)
<223> MAR of chromosome 2 genomic contig; 3196047..3196725

| | |
|--|-----|
| <400> 112 atatattata tattcatata tcataaatat atatattata tattcatata ttatatatct | 60 |
| atatatttat atattcatat attatatatc tatatattta tatattcata tatttatat | 120 |
| ctatttat attcatatat tatatatcta tatattttat atattcgat attatataatc | 180 |
| tatatattat atattcgat attatatatc tatatattat gtattcatat atatctatat | 240 |
| attatataata ttcatatata ttataaatta tattcatata gtatatatct attataaatg | 300 |
| tatattcata tagtatatat ctatatatta taaatataca tatatttat atttataat | 360 |
| tatatattca tatacatcta tatatttat atattcatat atgaatataat atattatag | 420 |
| tatatattat ataaatataat ttatatagt tagatattat atagtatatg catattata | 480 |
| ttataaataa ttacatagt atatgtatat ttataaatta tatatattta catattacat | 540 |
| gtatatttat atattataaa tacatattta catattataa atatatttat atattatgaa | 600 |
| tataatttat atattattac atattacat atatgcatac ttatattta taaatatgca | 660 |
| tttatgtaaa tatatattt | 679 |

<210> 113
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(728)
<223> MAR of chromosome 2 genomic contig; 3196778..3197505

| | |
|---|----|
| <400> 113 tacataaata tatatttaca atatgtaaat atctgatatg taaatatgt tttataat | 60 |
|---|----|

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| | |
|--|-----|
| ataaaatatac atataatatg taaatatata aatatacata tactatgtaa atatatgtta | 120 |
| tatatacata tactatataa atatagaata tataaatata catactat ataaatatgt | 180 |
| aatataaaa tatatactat ataaatatac atatactata taaatgtatt tataatata | 240 |
| aaatatacat atactatata aattcatata tgaatatata atatataat atatataa | 300 |
| tatgaatata tactcatata taaatatata tgaatatata tttataat atagatataa | 360 |
| tatgaatata tatttataat atatagat atattatgt aatatatatt tataatata | 420 |
| agatatatac catatgaata tatattatac actatatgaa tatatattta taatataaa | 480 |
| atagatatat actatatgaa tatataat atatactcta tgaatatata atatataac | 540 |
| tatatgaata tattatatac tgtatgaata tataatata agatgtatac tataatgaata | 600 |
| tataatata agatatata actatatgaa tatataat atatagat atactatgt | 660 |
| aatatataatg atatataatg atatactata tgaatatata atatataatg atatattt | 720 |
| gatatatg | 728 |

<210> 114
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(413)
<223> MAR of chromosome 2 genomic contig; 2560638..2561050

| | |
|---|-----|
| <400> 114 atataaaat atatttat attttatata aatataatata tttatattt tttatataaa | 60 |
| tatataatatt tatataatatt tatataaata tatataattt tatataatttataaata | 120 |
| taaataatata tatttatata aatataaaa atatataat atatttat aatataataa | 180 |
| aatataaaa tatatttata taaatatata aatataataa atatatttata atataatata | 240 |
| ataaaatata taaatatctt tatataaaa tatataaaat atataatata ctttatata | 300 |
| aaatataataa aatataataaa tatatttata tataatata taaaatataat aaatataattt | 360 |
| atatacaaata atataaaaata tataatata tttatataata aatataataaa ata | 413 |

<210> 115
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(361)
<223> MAR of chromosome 2 genomic contig; 4965309..4965669

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<400> 115
tatacgata tatacatata tatacgata tatatacata tatatacgta tatatacata 60
tgtatatatg tgtgtacatg tatatatata catatgtaca tatatatgtac cacatata 120
tatacatata tatgtacaca tatacatata tatgtacaca tatacatata catatatatg 180
tacacatata tatacatata tatgtacaca catatatata catatatatg tacacacata 240
tatacgata tatgtacaca catatatacg tatatatatg tacacacata tatacgata 300
tatatgtaca cacatata tatacgatata tatgtacaca tatatatata cgtatata 360
t 361

<210> 116
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(325)
<223> MAR of chromosome 2 genomic contig; 5258150..5258474

<400> 116
tacacacaca tatacatata tacatata cgtgtatacg tatacgata tacgtatata 60
tacatatacg tatacgata cgtatatacg tatatacata tatatgtata cgtatacgta 120
tatacgata tatacatata tgtatacgta tacgtatata cgtatatacatatgtata 180
tacgtatatacg tatatacgtatata catatgtata cgtatacgta tatatgtata 240
tatacgata tgtatacgta tacatata cgtatata cgtatatacatatgtata 300
cgtatatacatatgtata tatatgtaca tatac 325

<210> 117
<211> 1508
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1508)
<223> MAR of chromosome 2 genomic contig; 6057499..6059006

<400> 117
atataatata taaaattat ataatatata aaaattaata tataatataat ataaattata 60
taatatataaa attaattata taatataatata aaattatata atatataaat taattatata 120
atatatataaa attatataat acatataaat taattatata atatataaat tatataatata 180
atacaaatta tatactataat taattatata ttatataatt aattatataa tataatataaa 240
ttatatatta ttaaattaat tatataatata ataaattata taatataataa attaattata 300

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| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|------|
| taatataata | attatataat | atataaaatta | attatataat | atataaatta | tataatata | 360 |
| aaattaattg | tataatata | aaattaatta | tataatata | aatatataat | taataaataa | 420 |
| ttatatatta | attatataat | taataaataa | ataataaata | tatataatta | atatataata | 480 |
| tacatcatat | atatcacata | tagattat | aatagtata | tattatataa | taaattat | 540 |
| ataatataata | ataaacat | ataacat | ttatata | cataatata | tataatata | 600 |
| aacatgtt | atattaca | taatata | taatataaa | catgttat | attacata | 660 |
| atagtataat | atataacata | tgttat | tacataat | agtataat | ataacat | 720 |
| ttatataata | cataatata | tataatata | aacatgtt | atattaca | taatata | 780 |
| taatataaa | catatgtt | atattaca | atatgtata | atataaca | tatgtt | 840 |
| attacataat | atagtataat | atataacata | tgttat | tacataat | agtataat | 900 |
| ataacat | ttatata | cataatata | tataatata | aacatgtt | atattaca | 960 |
| taatata | taatataaa | catatgtt | atattaca | atatgtata | atataaca | 1020 |
| tatgtt | attacataat | atagtataat | atataacata | tgttat | tacataat | 1080 |
| agtataat | ataacat | ttatata | cataatata | tataatata | aacatgtt | 1140 |
| atattaca | taatata | catgtt | attacataat | atagtataat | 1200 | |
| atataacata | tgctatata | tacataat | agtataat | atatgtt | tattacataa | 1260 |
| tatagtataa | tatataacat | atgttata | ttacatata | tagtataa | tatgtt | 1320 |
| atattata | atatgtata | atataat | tatgtt | attatataat | atagtataat | 1380 |
| atataacat | ttatata | tataatata | atgttata | ttatataata | tagtataa | 1440 |
| tagtataa | tataatata | gttatata | atataatata | gtataatata | tatgtt | 1500 |
| attatata | | | | | | 1508 |

<210> 118
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(415)
<223> MAR of chromosome 2 genomic contig; 7996866..7997280

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|-----|
| <400> 118 | caattatata | atatacatat | tatataattg | tataaattat | acaatcatat | aattatatta | 60 |
| | tatataat | acatataata | taattatata | taattatata | atttataat | ataattat | 120 |
| | ataattat | aattatata | aatatataat | ataattat | atataatata | tatattat | 180 |
| | atattatata | taatataaa | ataatata | taatataat | ataattat | ataataat | 240 |

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| | |
|--|-----|
| atgtaatata tataatatata atataatata ttatTTATAA ttatATATAA tatATATATT | 300 |
| ataatata taattataaa taatATATAT tataATATAT ataATAATAT atATATAATT | 360 |
| atATATAATA ATATATATT TAATTATATA TAATAATATA TATAATTAT ATAAT | 415 |

<210> 119
<211> 526
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(526)
<223> MAR of chromosome 2 genomic contig; 8300930..8301455

| | |
|---|-----|
| <400> 119 | |
| tatATCATAT gATATATTAT aCAATATATC ATATAATATG ATATATTATA TGATATATTG | 60 |
| tACAATATAT CATATGATAT ATGATATATT ATACAATATA TCATAAGG TATATATTAT | 120 |
| ATCATATATA ATATATAATA TAATATATGA TATAATATAT GATATATGAT ATATAATATA | 180 |
| TGATATATGA TATATGATAT ATAATATATG ATATATGATA TATGATATAT AATATATGAT | 240 |
| ATATGATATA TGATATATAA TATATGATAT ATGATATATG ATATGATATA TGATATATGA | 300 |
| TATAATATAT GATATAATAT ATGATATATA TTATATGATA TATAATATAT GATATAATT | 360 |
| ATATGATATA TAATATATGA TATATAATAT ATAATATATG ATATGATATA TATTATATCA | 420 |
| TATATAATAT ATAATATAAT ATATGATATA TATTATATAT TTTTACAT TATATATATA | 480 |
| AACTATATAA CAATATAACA TATTATGTGT ATAATATATA TTACAT | 526 |

<210> 120
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(402)
<223> MAR of chromosome 2 genomic contig; 8576553..8576954

| | |
|--|-----|
| <400> 120 | |
| ATGTATATTA TATACAATAT AGTATATCAT ATATAGTATA TATTATATAG TAATGTATTA | 60 |
| TATATAATGT ATAATGTATA AATATATAAT ATATACTACA TACTATACATA TTATATATAC | 120 |
| TATATATTAT ATATGATACA TATACATAT AATATGCTAT ATATTATAC ATATAATATG | 180 |
| CTATATATTA TACTATATAA TATGCTATAT ATTATACAT ATAATATGCT ATATATTATA | 240 |
| CTATATAATA TGCTATATAT TATACATAT AATATACAT ATAATATGCT ATATATTATA | 300 |
| CTATATAATA TACTATATAT TATACATAT AATATACAT ATAACACACT ATATATTATA | 360 |
| TATGATACAT ATACATATATT ACATATATAA TATATATATA TA | 402 |

<210> 121
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(477)
<223> MAR of chromosome 2 genomic contig; 8785649..8786125

| | | |
|--|-----|--|
| <400> 121 | | |
| tatttatata tatatttata tatatatattta tatatattta tatatatatttata | 60 | |
| tttatatata tatttatata tttatatata tatattttta tatatttata tatatattta | 120 | |
| tatatttata tatatttata tttatatata tatatttata tatttatata tatttatata | 180 | |
| tatatattta tatatattta tatatatata tttatatata tttatatata tttatatata | 240 | |
| tatttatata tatatttata tatatattca tatatattta tatatatatttata catatattatt | 300 | |
| tatatatata ttcatatata tttatatata tatttatata tatatttata tatatttata | 360 | |
| tatatttata tatatattta tatatatttata tatatatata tatttatata tatatttata | 420 | |
| tatatatatttata tatatatata tttatatata tatatttata tatatattta tatatatt | 477 | |

<210> 122
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(773)
<223> MAR of chromosome 2 genomic contig; 10064737..10065509

| | | |
|---|-----|--|
| <400> 122 | | |
| atattatata tattacatat atattatatt gtatataata tatattattat attgtatata | 60 | |
| atatatata tatattgtat ataatatata tattatattg tatataatat atatattata | 120 | |
| ttgtatataa tatattatatt tgtatattat atttgtata tattatattg tatacaatat | 180 | |
| atattatatt gtatacaata tatattatatt tgtatataat atattatattt gtatataata | 240 | |
| tattatattt gatattattt attgtatata atatattata ttgtatataa tatattatatt | 300 | |
| tgtatattat atttgtata taatatatta tatgtatata atatagtgt tactatatta | 360 | |
| tataatata attatataaca atatataata tattgtatata catatatgtat atattgtata | 420 | |
| taatatataa tatatgtatata attgtatata atatattata tatgtatata tttatattat | 480 | |
| atattatata tgatatattt gatattatattt attatattata gtatattgt tactatatta | 540 | |
| tatatattgt atataatatg ttatattattg tatataatat gttatattat atatattgt | 600 | |

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| | |
|--|------|
| tatatgttat atattatgtta ttgttatataa tatgttatatt attatataatt gtatataatg | 660 |
| tattatatat tatatatattt atatattgtta tataatgtat tatatattgt atattatata | 720 |
| ttatatattg tatataatata attatataaca ttatattata tattatataat tgt | 773 |
| | |
| <210> 123 | |
| <211> 1554 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(1554) | |
| <223> MAR of chromosome 2 genomic contig; 1039775..1041328 | |
| | |
| <400> 123 | |
| ataatatattt aaatgttat attatataattt aaatataat atatttataa tatataaata | 60 |
| tttatataaa tataaaatattt atattaataa taaatataata taaaatataat attaaatata | 120 |
| taaaatataa atatataattt aatatataattt aaatataataa aatataaata tatattaaat | 180 |
| atatttataa tatataaaaat attaaatataat attaaatataa tttaaatat attaaatata | 240 |
| aatatataattt aaatataattt taaatataattt aaatataat acatatatta aatataatatt | 300 |
| atataatataa aatataataaa atataaataat atattaaataa tatataaaaat atatatgtta | 360 |
| aatatataaa agatataataa aatataaataa tatattaaat atatataaaa tatataatata | 420 |
| ttaaatataat atattaaataa taaatataataa taaaatataaa atatatgtat taaatataata | 480 |
| tattaaatataa aaatataatgtt attaaatataa tattaaatataa gaatataatgtt attaaatata | 540 |
| tattaaatataa aaatataatgtt attatataataa tagaatataa atatatgtat taaatataatgt | 600 |
| atattaaataa taaatataataa taaaatataat attaaatataa aatataatata aatataatata | 660 |
| attaaaaata tatataatataa aaatataatata aaaaatataa tattaaaaat atatataata | 720 |
| taaataatataa taaaatataat atattaaaaa tatataataa atatataatata taaaatataata | 780 |
| tataaaatataat atatattaaaaa aatataatataa aaatataatata attaaaaata tatattaaat | 840 |
| ataaaatataat atattaaaaaa tatataatataa atataactat atattaaataa tatattaaat | 900 |
| ataactataat attaaatataa tattaaatataa aactatataat taaatataataa ttaaatataaa | 960 |
| ctatataatata aatataatataa aaatataact atatattaaa tatataatataa atataactat | 1020 |
| atattaaataa tatattaaat attaaatataa tattaaatataa aactatataat aactatataat | 1080 |
| taaataatataa tggaaatataa ctatataatata aatataatataa aaatataact atatgttata | 1140 |
| aatataaaataa tatgtcttaa atatataatataa aatataaataa tatgttataa atatataatata | 1200 |
| aatataaaataa tgggttataa atatataatataa aatataaataa tgggttataa atatataatata | 1260 |
| aatataaaataa tgggttataa atatataatataa aatataaataa tgggttataa atatctatata | 1320 |

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| | |
|---|------|
| taaatataaa tatatgtatt aaatatatat taaatataaa tatatattaa atatatatat | 1380 |
| taaatataaa tatatattaa atataaatat atatattaa tatatatatt aaatataaat | 1440 |
| atatataaaa tatatatatt aaatataaat ataaatataa aatatatatt aaatataaat | 1500 |
| acatatatta aatatatgtt ttaaatatat atataaaata tatgtattaa atat | 1554 |

<210> 124
<211> 650
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(650)
<223> MAR of chromosome 2 genomic contig; 3944813..3945462

| | |
|---|-----|
| <400> 124 | |
| catgatatat tatgtataat atatattata gattacatat aaattatata tataatatat | 60 |
| aattatataa tatataatat tatataatatt attatataa ttatacaatt atataatata | 120 |
| tataatatac aatttatataa tatataatat acaatttat aatatataat acaatataat | 180 |
| atatatttaa tatatttat aatacatatt taatatatta tatatttat gttatatact | 240 |
| aaatatataa tatgtattta atatatacta ttatatatgt aatatattat ataatttg | 300 |
| taacatatta tatatttat atgcaatata ttacatgtt catatattt acatataata | 360 |
| tatgtaatat ataataataca ctatattt atagtatata atatactata ttatgttaatt | 420 |
| atataatata gtatattata cactatatta tattatcata taattatata ttatatacta | 480 |
| tattacatat atattatgtt atataatatg caatatgtt catatataat atatatgtat | 540 |
| tatatagtat atatactata gtatatataa aatatatgtc ataataatata ttttatataat | 600 |
| tatataatac atataatgtt tcataatatta tatataatat attttataat | 650 |

<210> 125
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(441)
<223> MAR of chromosome 2 genomic contig; 5314265..5314705

| | |
|--|-----|
| <400> 125 | |
| tataaatata tatgaaatat atataaatta tatataattt atatatacat atataaatta | 60 |
| tatataaatt atatataaat tatataatca tatataaatt atatattata tataaaattt | 120 |
| tatatattta tatataaattt gtatatataa ttttatataa aattgtatat ataatttata | 180 |
| tatacaatgt atatattaat ttatataac attgtatata taatttatat atacattgtt | 240 |

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| | |
|---|-----|
| tatacaattt atatatacat tgtatataca atttatatat acattgtata tacaatttat | 300 |
| atataaatta tattatttat atatagtata tataaatata tatactatat ataaattata | 360 |
| tatttatata tatattatat tatttatata taaattatat attattata tatacattat | 420 |
| atataaatta tatattattt a | 441 |

<210> 126
 <211> 1169
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1169)
 <223> MAR of chromosome 2 genomic contig; 5953971..5955139

| | |
|---|------|
| <400> 126 | |
| atgtattcat attatatatt tataaaaa taatatacat tcattatata tatttatata | 60 |
| taaataat atattcatat tatatttta tataaaata tataatatat ttatgtataa | 120 |
| ataatata tattcatatt atatattct atataaataa tataatattt catattat | 180 |
| atttatata aaatataaa tatatttata tataatata taatatttt atatataata | 240 |
| tataattca tattatataat ttatataaa atatataata tatttatata taaaataat | 300 |
| atatattcat attatataatt tataataaa taatataat tcattatata tatttatata | 360 |
| taaataat atattcatat tatatactta tataaaata atatatttc atattatata | 420 |
| cttatata aataatataat attcatatta tatatttata taaaaataat atatattcat | 480 |
| attatataatt tataatataat atatatttc atattatata tttatataatt ctatatattc | 540 |
| atattatata tttatataata aataatgtat attcatatta tatatttata tataaataat | 600 |
| gtatattcat attatataatt tataataaa tatatttca tattatataat ttatataata | 660 |
| atatatttc atattatata tttatataata aatataattt catattat atttatataa | 720 |
| aatataatata ttcattattt atttataattt aatataatattt attcatat atattatata | 780 |
| ataatata tattcatattt atatattt atataatata tatttca ttatataattt | 840 |
| atataataat aatataatata ttcattattt atatttataat taaaataatg tatttca | 900 |
| ttatataattt atatataaaat aatgtatattt catattat atttatataat aatataat | 960 |
| attcatatta tatatttgta tataatata tattcatattt atatatttgt atatataattc | 1020 |
| atataatattt atatataaaat atataatattt catattat ataaatataat atattcatat | 1080 |
| tataatatttata tataatataaa taatataat tcatattt tataatataata aataatataat | 1140 |
| attcatatta tttatataata taaaataata | 1169 |

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<210> 127
<211> 653
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_binding
<222> (1)..(653)
<223> MAR of chromosome 2 genomic contig; 6427669..6428321
```

<400> 127 tataatatgtatcatatatgttatatatgttatatatgtatcatatatgttatatatgtg 60
tatatatgtatcatatatgttatatatgttatatatgttatatatgtatcatatatgttatatatgtg 120
tatatatgtatcatatatgttatatatgttatatatgttatatatgtatcatatatgttatatatgtg 180
tatatatgtatcatatatgttatatatgttatatatgttatatatgtatcatatatgttatatatgtg 240
tatatatgttatcatatatgttatatatgttatatatgttatatatgttatatatgttatatatgtg 300
tatatatgttatcatatatgttatatatgttatatatatatgttatatatgttgttatatatgtg 360
tatatatatatgttatataagtgttatatatgttatatatgttatatatgttatatatgttatatatgtg 420
tatatatatatgtgttatatatgttatataaggtgttatatatgttatatatgttatatatgttatatatgtg 480
tatatatatgttatatatgttatatatgttatatatgttatatatgttatatatgttatatatgttatatatgtg 540
tatgttatatacatatatatgttatatatgttatatatgttatatatgttatatatgttatatatgttatatatgtg 600
tatatatatgttatatatgttatatatgttatatatgttatatatgttatatatgttatatatgttatatatgtg 653

<210> 128
<211> 414
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_binding
<222> (1)..(414)
<223> MAR of chromosome 2 genomic contig; 10890453..10890866
```

```
<400> 128 tatattttgt aaatataatat atagtaaaata tatgtaaata tatataatTTT gtaaatatat 60  
atataatTTTg taaaatatATG taaaatatATA tattttgtAA atataatgtAA atataatatAT 120  
tttgtAAata tatgtAAata tatataatTTT gtaaatataat gtaaatataat atatTTTgtA 180  
aatataatgtA aatataatATA ttttgtAAat ttatgtAAat atataatTTT tgtaaatata 240  
tgtaaatata tatataatTTT gtaaatataat atacatataat attttgtAAA tatataAAaca 300  
tatataatTTT ataaaatatAT ttataAAatAT atatattgtA aatataatTTA taaaatatATT 360  
tataatataat atattgtAAA tatgtTTTataA aatataatATA ttgtatataat aaAT 414
```

<210> 129

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<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(496)
<223> MAR of chromosome 2 genomic contig; 13952568..13953063

| | |
|---|-----|
| <400> 129 | |
| taatatacat attatatatt atatattgta tatataatat acatattata tattatatat | 60 |
| tgtatata atatacatat tatatattat atattgtata tataatatac atattatata | 120 |
| ttatatattg tatatataat atacatatta tatattatat attgtatata taatatacat | 180 |
| attatatatt atatattgta tatataatat acatattata tattatatat tgtatata | 240 |
| atacacat tatatattat atattgtata tataatatac atattatata ttatatattg | 300 |
| tatatataat atacatatta tatattatat attgtatata taatatacat attatatatt | 360 |
| atatattgta tatataatat acatattata tattatatat tgtatata tatacacat | 420 |
| tatatattat atattgtata tataatatac atattatata ttatatattg tatatataat | 480 |
| atacatatta tatatt | 496 |

<210> 130
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(317)
<223> MAR of chromosome 2 genomic contig; 16942865..16943181

| | |
|--|-----|
| <400> 130 | |
| tctcctagta gttatata tataatgtg tatatata ttcctagta gatatatata | 60 |
| tatatatatc ctagtagata tatatata tatacctag tagatatata tatatatata | 120 |
| tcctagtagt tatatatata tataatcct aacagttata tatatatata tcctagtagt | 180 |
| tatatatata tatacctag tagttatata tatatatata tcctagtagt tatatatata | 240 |
| tatacctag tagttatata tatatatatc ctagtagta tatatatata ttatatatta | 300 |
| tataatatat atataat | 317 |

<210> 131
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding

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<222> (1)..(464)

<223> MAR of chromosome 2 genomic contig; 17217049..17217512

<400> 131

| | | | | | | | |
|------------|------------|------------|------------|------------|----|------------|-----|
| acatactata | tatatacaca | tactatatat | actatataca | gtatatagt | ta | catatact | 60 |
| atacatatac | atatactata | catatacata | tacatatact | aagtatacg | ta | tacagta | 120 |
| catagtata | gtatactata | tagtatgt | atatagcata | tagtatgc | ta | tactctata | 180 |
| tagcatat | atgcatata | cgctatata | catatagt | gcataacta | ta | tatatagt | 240 |
| agagtatgc | tatactata | atatagtata | gagtatgc | atactatata | ta | tatagtata | 300 |
| agtatgc | tactatata | atagtataga | gtatgcgt | actatata | ta | tagtata | 360 |
| tatgcgtata | ctatata | agtatagat | atgcgtatac | tatata | ta | gtatagagta | 420 |
| tgctatact | atata | atagagt | tgctatact | atata | ta | gtatatata | 464 |

<210> 132

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(430)

<223> MAR of chromosome 2 genomic contig; 19647266..19647695

<400> 132

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| tgtaaatata | tgtaaatata | tatttatatt | atatattata | taaaaatata | atataata | 60 |
| tataatata | aaactatata | ttaatataat | atataaaac | tattatataa | atacatatta | 120 |
| aatatattat | attttaata | tttatattatt | aaatataata | tatatttaat | atttatata | 180 |
| taaatatata | atatattta | tatttatata | atatatagca | tattttat | ttatattata | 240 |
| tataacattt | tatatttata | tttatattta | tatattttta | atttatattt | atattatatt | 300 |
| tatatttata | tttatataaa | cataattata | tatattttca | tattgtat | aataaagaaa | 360 |
| tgtatatttg | tttatataaa | tatattttat | ataatttatt | atatattata | taatatata | 420 |
| tatataat | | | | | | 430 |

<210> 133

<211> 2131

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(2131)

<223> MAR of chromosome 2 genomic contig; 20481223..20483353

<400> 133

| | | | | | | |
|-----------|------------|-------------|------------|-----------|-------------|----|
| tatataaaa | tatatttata | tttaatataat | atttatataa | atatatttt | atataaataat | 60 |
|-----------|------------|-------------|------------|-----------|-------------|----|

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| | |
|--|------|
| atatttaata taaatatctt tatatttaat atatatttaa tataaatatc tttatattta | 120 |
| atatatattt atatataaat atatatttat atttaatata tattaatatt taatatacgt | 180 |
| ttatatttaa tatataatttc tatataaata tatttatatt aacatattt tataataaa | 240 |
| tatattata ttatatatat ttacatataa atatatttat atgtaatata tttacatata | 300 |
| aatatattta tatttaatat atatgcata gtaaatata ttatatttaa taatattt | 360 |
| atataaatat atttatattt aataatattt atatataaat atatttatat ttaatata | 420 |
| ttaaatatat atttatattt aatataattt aatatttaat atatatttat atttaatata | 480 |
| tatttatat aaacatataat ttatatttaa tatatattat atataaacat atatttat | 540 |
| ttaatataat ttatataataa acatatattt atatttaata tatatttata ttaatata | 600 |
| tatataataa catatattta tatttaatat atatttatat taaatata ttaatataa | 660 |
| acatatattt atatttaata tatatttata taaatataat atttatattt aatataata | 720 |
| tattaaatat atatttatat ttaatataata tttatattaa atatataattt atattaata | 780 |
| tatttatatt taatataatat ttatattaaa tatataata atatttaata tatatttata | 840 |
| tttaatataat acatataat ttatatttaa tatatacata tatatttata ttaatata | 900 |
| acatataat ttatatttaa tatatacata tatatttata ttaatataat aaatttat | 960 |
| tttatataata taaaatata tatttatatt taatataat aatataat ttatattta | 1020 |
| tatataatatt tatattgaat atatacataa atatataattt atatttaata tataaacata | 1080 |
| tatattatatt tatataattaa atatataattt atatttaata tataatata tatttatatt | 1140 |
| taatataattt atatatacta atatatttattt atttaatata tttatata gatatattt | 1200 |
| tatthaatat atttatgtgt atttaatataat ttatatttaa tatatttata tattaatata | 1260 |
| tttatatttt atatttatat atttaatataat ttatatttt tatttatatt ttatataattt | 1320 |
| atatattaat atatttatat ttatataat tttatataat taataaattt atatttata | 1380 |
| tatttatata ttaataaaattt tatattttat acagttat aatataattt atatttata | 1440 |
| cagttatata aatataattt tattttatag ttatataat atatttata tttatacagt | 1500 |
| tatataaata tatttatatt ttatacagt attaaatata atttatattt tatacagtta | 1560 |
| tataaatata ttatattttt atacagttt attaaatata ttatatttt tacagttata | 1620 |
| taaatataattt tatattttat acagttat aatataattt atatttata cagttatata | 1680 |
| aatataattt tattttatata agttatataa atatatttattt attttataca gttatataaa | 1740 |
| tatatttata ttttatacat ttatataat atatttataat ttatatacatt tttatataat | 1800 |
| atatatttata atataaataat attttatattt taatataattt atatataaata atatatttgat | 1860 |
| atttaatata tatttatata taaatata tttatata tttatataat atatgtttt atataaataat | 1920 |

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atatttatata ttaatatata tggttatata tcaatataata tttatattta atatataattt 1980
acatataaat atatatttat atttgatata tatttatatt tgatataat tttatata 2040
ttaatatatt tacatggat atatattta tatatattaa tatattaca tttgatata 2100
attttatata tattaatata tttacattt a 2131

<210> 134
<211> 842
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(842)
<223> MAR of chromosome 2 genomic contig; 20483478..20484319

<400> 134
tatatattta tggttaatat atatttagt ataaatata attacgtt aatataattt 60
tatagataaa tatatattta cggttaatat atattatct ataaatata ttacgtttaa 120
tatatattta tatattaata tattttagtt taatataat ttatataat taatataattt 180
atgttaata tatatttata tattaatata tttatgttta atatattt atatattaat 240
atattatgt ttaatataata tttatgtt aatataattt ggtatataa tatttataatg 300
ttaatataata tttatattaa tatattatata ttatataata aagtatata aatataaaa 360
tattatataaa attattatata agtattttta tatatattta tatataaattt ttatataattt 420
tatatataata aatataattt tatatataca ttttatata aaatataat ttatataaac 480
attatataata taaatataata tatttataatt ttatataata atatataat ttatataatac 540
attttatata ttttatataat gttaatataat atataaattt tatatattgt atatataattt 600
atataaattttta tatatataattt tatatataata atatataaaa ttttatataat 660
attatataata ttttatattt atatattata tatttattta tatatattta tatgttataat 720
atatttatata ttatattttat tttttattta tatattttat atatataattt atatatgtat 780
attatataata ttatataattta tataatataat tatatataattt atattatata ttttatattt 840
at 842

<210> 135
<211> 645
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(645)
<223> MAR of chromosome 2 genomic contig; 20897566..20898210

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| | | |
|---|-----|--|
| <400> | 135 | |
| gtatatttat attatatatt atataatata tattatatat taataaaatta tatataaatat | 60 | |
| aatatatatg tatatttata tttatgttat aatatacata taattatata tgtatgtata | 120 | |
| catgtataca tatacgtata tgtgtatag tatacatata ggtatatgt tacatgtata | 180 | |
| catataggta tatgtatag tatacatgta tacatataat ataattacat atgtatgtat | 240 | |
| acatacatat gtaattatat tataatgta tatgtatatt tatataatata ataataatgta | 300 | |
| ttatatatta tacatgcata tttatatgta tattatatat acacatataa tataattata | 360 | |
| tatgtatgta tatatacaca tatatattta tattatatat gtatattata tacatatatt | 420 | |
| tatattatat atgtatatat atttatcata tttatatgta atatgcgtgt gtaataaaata | 480 | |
| atatacacat ttatatatgt atattatata catatattta tattgtatat gtatatatat | 540 | |
| ttatatatat ttgtatatca tatatttata tattgtatat ttatgtatat tatatattta | 600 | |
| tatattatat atgtattata taatataatata gtaaatatata attat | 645 | |

<210> 136
 <211> 722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(722)
 <223> MAR of chromosome 2 genomic contig; 21664541..21665262

| | | |
|--|-----|--|
| <400> | 136 | |
| tataatatat attatattct atataatatg taaaatatat attatattct atataatgta | 60 | |
| ttatatatag aatataatat attctatgta ttctataatc tatataatac atattatata | 120 | |
| ttatataaga tattataaat aatattattct atattatata tagaatatat tctatatgtt | 180 | |
| tatattctat atattatata tgaaatagta tataaaatata atataatata tataaaatata | 240 | |
| gatatataat atatataaaa taatataaa tgtataatata ataaaataat atataatgta | 300 | |
| taatataata aataatataat aatgtataat atataaaata atatataatg tatattatata | 360 | |
| aaaataatata ataatgtata ttatataata aataatataat aatgtatatt atatataaaa | 420 | |
| taatataataa tttatataaa ataatataata atatattata tataaaataa tatataatata | 480 | |
| attatataata aaataatataa tattatataat aaaataatata ataatatata atatataaaa | 540 | |
| taatataataat tatataataaa ataatataata atatattata tataaaataa tatataatata | 600 | |
| atataaaata atatataatata tatataaaat aatataatata atattatata taaaataata | 660 | |
| tataatataat tatataaaaaa tataaatataa ttatataaaa atataaaataa taaaatataa | 720 | |
| ca | 722 | |

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<210> 137
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(305)
<223> MAR of chromosome 2 genomic contig; 22834991..22835295

| | | |
|--|-----|--|
| <400> 137 | | |
| aatataaaaat atatgatata taatacgtat tatatatgtta taatacgtat tataatattaa | 60 | |
| tatataatata ataatacata ttatatatgtt atataatata tactaatata tataatgttat | 120 | |
| acattatata tttacataat atataataca taatatacaa ttataattat atataataca | 180 | |
| taatataataa ttatatatat tattatataat gtatttatat tatataatat atattatata | 240 | |
| taatataatata tatataatta tataagtata taattatgtt atatacataa taatataataa | 300 | |
| tataat | 305 | |

<210> 138
<211> 352
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(352)
<223> MAR of chromosome 2 genomic contig; 25277762..25278113

| | | |
|--|-----|--|
| <400> 138 | | |
| taatataatat aatatattat atattatata taatataattt tataatataat aaaatatatt | 60 | |
| atataataata tataatataat tttataatata atataatata ttatataataa tataataatat | 120 | |
| attttataat atatataata tattatataat attatataattt tataatattt tataatattca | 180 | |
| taaatataata tttatataata atatattttta taatataatata tataatataat ataatataatt | 240 | |
| ttataatata ttataatata taatataataa tatattttat aatataatata atatataata | 300 | |
| tattatataat ttatattttat ttatataatttc ataaatataat atatttataat ta | 352 | |

<210> 139
<211> 342
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(342)
<223> MAR of chromosome 2 genomic contig; 25378452..25378793

| | | |
|---|----|--|
| <400> 139 | | |
| tatgtacata tatattttat atattatata taatataatata tatgtatata atataatata | 60 | |

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| | |
|---|-----|
| ttatataata taatatataa aatatatata atatatatta tattatataa attatattat | 120 |
| atatatcata taatatattt tatatattat ataatatata ttatattata tatattttat | 180 |
| atattatatt atatattata tatatcatat aatatatatt atattatata ttttatata | 240 |
| tatataatat atattatata ttttatata ttatataata tatattatata attttatata | 300 |
| ttatataata catatattat atataatata atatataatta ta | 342 |

<210> 140
<211> 663
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(663)
<223> MAR of chromosome 2 genomic contig; 30209437..30210099

| | |
|---|-----|
| <400> 140 | |
| aatatatatt acatattgt atatagtgat atgtaatgt aataatata gatattctat | 60 |
| attgtataat agtaatata agtataatgt atactatata ttacttatca tatatacaat | 120 |
| atataattata tcgtatattg tatatttat attgtatata tgtaatata gatatgtaca | 180 |
| tatgttatat atgtatataa tatactatata tataatttgt atattatata catatataac | 240 |
| actattatac aataatataat atagcatatt atatacaata tagcatatac aataatataat | 300 |
| atagcatatt atataataata tagtatatta tatacaatata ataataatgc atattatata | 360 |
| taatataata tagtatatta tatacaatata ataataatgc atatacaata tagtatacaa | 420 |
| tatataatata agcatataca atatagtata ttatataata tatataatata agcatgtaca | 480 |
| atatagtatg ttatatacaa tatataatata agcatataca atatagtata ttatatacaa | 540 |
| tatataatata agcatataca atatattata ttatatacaa tatataatata agcatataca | 600 |
| atatagtata ttatatacaa tatataatac agcatataca atatagtata ttacatacac | 660 |
| tat | 663 |

<210> 141
<211> 1200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1200)
<223> MAR of chromosome 2 genomic contig; 31725089..31726288

| | |
|--|----|
| <400> 141 | |
| tgtacttata tattataatg tatataaaaa gtatatactt tatataact tatatattat | 60 |

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| | |
|---|------|
| aatgtatatt attgtatata agtatataatc ataatatata cttacatagc ctcacatata | 120 |
| ttataatgta tattgtatattt attatataca tattatataat gtataatgta tatatacatt | 180 |
| atatatgtat aatgtatata tacattatata atgtataatg tatatacata ttatataatgt | 240 |
| ataatgtata taatatacata aatatatgta taatataaa tatatacatat atatgtataa | 300 |
| tatacaatata atgtataata tacaatataat gtatagtata taatataatata tatataatgta | 360 |
| tagtatatta tatattatata atgtatagta tataatatgt ataatgtata tattataata | 420 |
| tattatataat aatatctata acaatataat atattgtata tattatataat aatataatatt | 480 |
| tatataatata atattatata taatataatta tgtatattt tatattatata ataataaaaa | 540 |
| tatataataat ataaataataa tttattatata attaatataa atatttatata taatataatata | 600 |
| ttattatata taaaataatata ctatgatata aataatataat aatatacatg tatatgttat | 660 |
| aatatacata tataatatac atgtgtatata atactataca tgtatataat acatgtatata | 720 |
| atatacatgt atataatataa tgtatcacatg tatagtataat atacatgtat atatacatat | 780 |
| atataactata catgtatata tacatgtata tatatacata tataactatac atgtatataat | 840 |
| acatgtatata atacacatata atactataca tgtatataata catgtatata tatacatgta | 900 |
| tgttatatac attattataa tatacatata tagtatacat tatatacatt atataatgt | 960 |
| cattattata atataatataa cattattata atatacatta ttataatata atatacatta | 1020 |
| ttataatataa cattattata atatacatta taataatataa cattattata atatacatta | 1080 |
| taatattgaa gtatatacata tataatataat gtatataat taatgtatata aatatacatt | 1140 |
| attatataatata agtatgtattt atatataagt atatattata atatatgtat atacatataat | 1200 |

<210> 142

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(325)

<223> MAR of chromosome 2 genomic contig; 32147252..32147576

<400> 142

| | |
|---|-----|
| aaataacaaat atttatttat atataatata taatataata tatttattta tatataatata | 60 |
| ataatttata attatataaaa tatataatata atttataatata aatataataat tttatttatata | 120 |
| attaattata tatataataaa atatataataa tatataatata tatttataatata taatttataata | 180 |
| tataataaaat atatataataa tataataataa ttatatacat tatataataaa tataaaatattt | 240 |
| tatataatata atatataataat atatttattt atatataaaat atataatataa taatttataata | 300 |
| aatataataat atatttataatata ataac | 325 |

<210> 143
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(507)
<223> MAR of chromosome 2 genomic contig; 32312662..32313168

| | | |
|--|-----|--|
| <400> 143 | | |
| attattttata taaatattat atttatatta tttatataaa tattatattt atattattta | 60 | |
| tataaatatt atatttat tatttatata aatattatat ttatattatt tatataaata | 120 | |
| ttatatttt attatttata taaatattat atttatatta tttatataaa tattatattt | 180 | |
| atattattta tataaatatt atatttatat tatttatata aatattatat ttatatttt | 240 | |
| tatataaata ttatatttt attatttata taaatattta tttatattat ttatataaata | 300 | |
| attatattta tattatttt ataaatattt atttatatta tttatataaa tatttattta | 360 | |
| tatttatata aataatatat aaataaatat tttatatgttataaataatttatttattt | 420 | |
| tttatttaaa taaataatat aaattaatat aaatattaat attatttatttatttattt | 480 | |
| taatataaat attatattta tattttat | 507 | |

<210> 144
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(339)
<223> MAR of chromosome 2 genomic contig; 33651118..33651456

| | | |
|---|-----|--|
| <400> 144 | | |
| aaatataata tattatttt atataatata aatgatatat tatgtatata taaaatataa | 60 | |
| ataatataatt atgtatatat aaaatataaa tattatttt atataaaata taaataatata | 120 | |
| ttatatataaa aatataaata ttatattttat tataatataaa atataaataa tatattttt | 180 | |
| atataaaaaa tataaataat atattttta tataataata atatataaaa tataaataata | 240 | |
| tatttatata aaataaaaata tatatattat atatataat ttatatataa tatataaaaat | 300 | |
| ataatataata tatttaatata ttatttatata atatataat | 339 | |

<210> 145
<211> 461
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_binding
 <222> (1)..(461)
 <223> MAR of chromosome 2 genomic contig; 45073053..45073513

| | |
|--|-----|
| <400> 145 | |
| tgtgtataca tatatacgtg tacatataca tatatacatg tgttatata tacgtgtaca | 60 |
| tatacatata tacatgtgta tatatatgta catatacata tatacatgtg tatacatata | 120 |
| tatatacatg tacatataca tatatacatg tgtatacata catatacata tgtacatata | 180 |
| catatacata tgtgtatact tacatataca catgtacata tacatataca catgtgtata | 240 |
| tatacatata tacacgtaca tatacatata tacatgtaca tatatacatg tatacatata | 300 |
| tacatgtaca`tatgtacata tatacatgta tacatataca catgtacata tgtacatata | 360 |
| tacatgtata catatacata tgtacatata tacatataca catgtacata tatacatata | 420 |
| tgtacatacg cacagataga catatacata tatgtacata c | 461 |
| | |
| <210> 146 | |
| <211> 1162 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <400> 146 | |
| attatattat ctatataaat ctattatatac tattatatta tctatataat atctattata | 60 |
| tatattat tatctatata aatctattat atatattata ttatctatata aaatcttata | 120 |
| tatatattat attatctata tatctattat atattatatt atattatatt atatataata | 180 |
| tctattatata atattatatt atattatatt atatataata tctattatata atattatatt | 240 |
| atctatataa tatctattat atattatata ttatattata tataatatct attatataata | 300 |
| ttatattata ttatataataa tatctattat atctattata tatattatata atatcttata | 360 |
| tatctattat atatattata tataatatct attatatcta ttatattatata tataatataat | 420 |
| atctattata tctattatata tatattatata ataataatcta ttatattatata tataatataatt | 480 |
| atatataatct attatatcta ttatattata tatatataat atctattata tctattatata | 540 |
| atattatata taatatctat tatatctatt atatattata tatataatat ctattatatac | 600 |
| tattatataat tatatataata atatcttata tatctattat atctattata tatatatact | 660 |
| ttatattatata tatatataatt atatacataa tatctattat atctattata tatattatata | 720 |
| atataatatac tattatatact attatataata tactatctat tatatctatt atatataatta | 780 |
| tatatgtact atctattata tctattatata ctattatata tataactatct attatatact | 840 |

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| | |
|---|------|
| ttatatatat tatatatata ctatctatta tatctattat atatattata tataactat | 900 |
| ctattatata tctattatat atattatTTT atattatata tagtatctat tacatatatt | 960 |
| atattatatt atatataata tctattatat atattatatt atattataaa taatatatat | 1020 |
| aatatctgtt atatataata gatattatat ataatatata atatataaa tagatattat | 1080 |
| atatattata ttatataata tataatatat aatataatta atataaaata tatataatat | 1140 |
| ataattaata taatatgtaa ta | 1162 |

<210> 147
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(562)
<223> MAR of chromosome 2 genomic contig; 45516233..45516794

| | |
|--|-----|
| <400> 147 acatattata tatattatat ataatatata ttatatac atattatata tattatata aatatattat atatatacat attatatac ttatatac atatataat tgtatataat | 60 |
| atatacatat tatatatatt atatatacat attatattat atatataata tatacatatt | 120 |
| atatattata taaaatatt atatattata taaaatatt atatataaa atattatata | 180 |
| ttatataaa atattatata tcttataat aaatataata tataatataat ataattttta | 240 |
| tatattata ataaatatta tatattattat ataattattat atataatata taaaatata | 300 |
| tattatataa atattgtata tattatataa atattatata tattatataat aaatattata | 360 |
| tatattataat aaatataat aaatataaa aatataaaa tatgtaaaat ttatatttt | 420 |
| aaatataaa taaaatata taaaatataa taaaattat atataatata taatatatta | 480 |
| tacataatata atactatata ta | 540 |
| | 562 |

<210> 148
<211> 801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(801)
<223> MAR of chromosome 2 genomic contig; 45727251..45728051

| | |
|--|-----|
| <400> 148 atatatatatata catatataga atatatatat tattatattc tatatataga | 60 |
| atatatatatata agaatatata tatatagaat atatataat aatatatata tagaatatat | 120 |
| atatagaata tatatataga atatatatat atagaatata tatatagaat atatatatat | 180 |

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| | |
|---|-----|
| agaatatata tataatagaat atatatatat agaatatata tatatagaat atatatata | 240 |
| aatatatata tagaatatat atatatagaa tatatatata gaatatatat atatagaata | 300 |
| tatatataga atatatatat atagaatata tatatagaat atatatatat agaatatata | 360 |
| tatagaatat atatatata tagaatatat atatatagaa tatatatata | 420 |
| gaatatatat atatagaata tatatataga atatatatat atagaatata tatatagaat | 480 |
| atatatatat agaatatata tatagaatat atatatata tagaatatat | 540 |
| atatatagaa tatatatata gaatatatat atatagaata tatatataga atatatata | 600 |
| atagaatata tatatagaat atatatatat agtatata gaatatatat atatagtata | 660 |
| tatagaatat atatatata tagaatatat atatatagaa tatatatata | 720 |
| gaatatatat atatagaata tatatataga atatatatat atatagaata tatatataga | 780 |
| atatatatat atatataagaa t | 801 |

<210> 149
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(346)
<223> MAR of chromosome 2 genomic contig; 50937238..50937583

| | |
|---|-----|
| <400> 149 taaaattata tatattata ataatatata atatattata tataatata attataatata | 60 |
| atataatata tattatataa aatatattct atagaatata tattctatta tataatataat | 120 |
| attctattat aatataatatt atatataata tatattctat tataatataat attatataata | 180 |
| atatattcta ttatgatata tattatata aataacatata attatataata atatataattc | 240 |
| tattatataa aatataatatt atataaaata tatattctat tatataaaat atatattata | 300 |
| taaaatataat attatattat ataaaatata tattatacta tatata | 346 |

<210> 150
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(462)
<223> MAR of chromosome 2 genomic contig; 55672627..55673088

| | |
|---|----|
| <400> 150 taaatatata ttatatatta tattatataat aatatattta tatttatata tactataatt | 60 |
|---|----|

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| | |
|---|-----|
| tatataataat atatattata tatataaatat atttataata tatatcatat aaataatata | 120 |
| tatttataat atatatcata taaataatat atatttataa tagatatcat ataaaataata | 180 |
| tatattttata atagatatca tataaataat atatattttat aatagatatc atataaataaa | 240 |
| tatatattta taatagatat catataaata atatatattt ataatatata tcataaaaaat | 300 |
| aatatatattt tataatataat atcatataaa taatatataat ttataatata tatcatataaa | 360 |
| ataatatata tttataatag atatcatata aataatataat atttataata gatatcatat | 420 |
| aaataatata tatttataat agatatcata taaataatata at | 462 |

<210> 151
<211> 401
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_binding
<222> (1)..(401)
<223> MAR of chromosome 2 genomic contig; 56081352..56081752
```

<210> 152
<211> 765
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_binding
<222> (1)..(765)
<223> MAR of chromosome 2 genomic contig; 56404208..56404972
```

```
<400> 152 tatattatat aaagaatata tattatataa tatgtaaaga atatatatta tataatatgt 60  
aaagaatata tattatatat tatgtaaaga atatatatta tatataatat ataaagaata 120  
tatattatat aatatataaa gaatatatat tatatattat ataaagaata tatattatat 180  
ataatatata aagaatatat aatatataat atataaagaa tatatattat atataatata 240  
taaagaatat atattatata taatatataa agaatatata ttatatatta tataaagaat 300
```

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| | |
|---|-----|
| acatatatat aatatataaa gaatatatat tataatataat atataaagaa tatatattat | 360 |
| atataatata taaaagaatat atattatata taatataataa agaatatatata ttatataaa | 420 |
| tatataaaga atatataatta tatataatata ataaagaata tatattataat atattatata | 480 |
| aagaatatta tatattataat aaagaatata tattatataat aatataaaa gaataaacat | 540 |
| ataactata tataaagaat atacattata tatactatata ataaagaata tacattataat | 600 |
| atactatata taaaagaatat atataatata taaaagaatat acattatata taatataataa | 660 |
| agaatatatt atatattata taaaagaatac attataatata aaagaataaca ttatataataa | 720 |
| tataaagaat acattataat atataaagaa tatataataat atata | 765 |

<210> 153
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(443)
<223> MAR of chromosome 2 genomic contig; 61953416..61953858

| | |
|--|-----|
| <400> 153 | |
| tttatatatt atagataaaa ttatattata ttacatgtta tatataatata gtaaaatata | 60 |
| ttatattaca tatataatata ataatatgtt aaatatatta tattacatata ataatatata | 120 |
| atatgtaaaa tatattataat tacatataata atataaaata ttacatataa tatattttac | 180 |
| ataaaatataat attatctatt acatatttat tatatgtt aatatgtaca tatgtataaa | 240 |
| tatgtatata tttatacata tgtatataatt atatatacat atatatgtat atattatata | 300 |
| tacatataata tgtatataatt atattatata tacatataata tgtatataatt atattatata | 360 |
| tacatataata tgtatataatt atattatata tacatataata tgtatataata ttataaataat | 420 |
| gtataataaaa gatttatatg taa | 443 |

<210> 154
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(372)
<223> MAR of chromosome 2 genomic contig; 62076211..62076582

| | |
|--|-----|
| <400> 154 | |
| tatataataat tatatatgtt attatataatc agtataataata attatataata attatcaata | 60 |
| tatataatta tatataatta tcaatataata taattatcaa tagatataata taattatata | 120 |

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| | | |
|---|-------------------------|-----|
| tataattata tataattata tatcagtata tatacttata | taatttatata tatgttatata | 180 |
| taatttatg tataaattat ctataagtat atataactat | aatatatc aatttatatat | 240 |
| acttatgtat aatttatatat actgatatat aatttacat | aatttatatat atcaattata | 300 |
| tataattatg tataattata tatacatata tataattata | tatataaatt atatgtaatt | 360 |
| atataaattac ac | | 372 |

<210> 155
<211> 484
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(484)
<223> MAR of chromosome 2 genomic contig; 62158581..62159064

| | | |
|--|------------------------|-----|
| <400> 155 | | |
| atttatata tataaaaaat tatacatatt attttattat | atattatata cataatatat | 60 |
| atatttcata tataatatat atttatata atataaaata | tatattatgt ataatttat | 120 |
| ataaaatata ttatataatt atatataaca taaaatatat | ataatatata atttatata | 180 |
| atataaaata tataatataat ataaaatata tattatatgt | aatttatatat aatataaaat | 240 |
| atatatataa tataaaatat atattatata taattataat | ataaaatata tattatatag | 300 |
| tatattatt ataaaatata tattatatat aatttatatat | tatataaaat atatattata | 360 |
| tataattata taatataaaa tatattatgt atataattat | atataatata aaatatata | 420 |
| aatatatgaa ataagatata tactatatat aatatatata | atttacatat aagatatata | 480 |
| tcat | | 484 |

<210> 156
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(644)
<223> MAR of chromosome 2 genomic contig; 68145036..68145679

| | | |
|---|------------------------|-----|
| <400> 156 | | |
| tatatatatg ctaatatatg taatataat tatatatatg | ctaatatata tatgctaata | 60 |
| tataatataat atttatata aatatataat atatattat | ataaaatatat aatatattat | 120 |
| atataaaatat ataataaaaa tatatataat atataactata | ttatatatta tgtataacat | 180 |
| ataatacata ttgttatat ataataatata tattatatgt | tatatattat atattatata | 240 |
| taatataaca atatattttat tatattatat gttatatatt | atatattata tataatataa | 300 |

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| | |
|--|-----|
| cataatatat aatatataatt atattatata ttacatatat tagcaatatt atatataaaa | 360 |
| tatataaat atatataaaa tatataataa aatataaaat atatatcaa atataaacta | 420 |
| tataatatat aaaaatatat tatataat atataaaaat ataaactata taatataaa | 480 |
| aaatatatta tatataat ataaaaatatt attatatatt atatataaaa atatattata | 540 |
| tataatatat aaaaatatat ataaaatata aaaaatataat ataaaatata aaaaatata | 600 |
| aaaataatata aaaatatata atatataata atataatata taat | 644 |

<210> 157
<211> 530
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(530)
<223> MAR of chromosome 2 genomic contig; 71257289..71257818

| | |
|--|-----|
| <400> 157 atatctatta tatttatata ctttatataa attatatcta ttatattt atactttata | 60 |
| taaatttatat ctattatatt tatatacttt atataaatta tatctattat atttatatac | 120 |
| tttatataaa ttatatctat tatatttata tactttat aaatttatac tattatattt | 180 |
| atatacttta tataaatata taatttatatt tatatacttt atataaataat aattataaata | 240 |
| atatttatat actttatata aatataatta taaatatatt tatatacttt atataaataat | 300 |
| aattataaata atatttatat actttatata aatataatta taaatatatt tatatacttt | 360 |
| ataatttatat gttatattta taatttatatt tatataattc ataatttatat acattatgtt | 420 |
| tatagtata taatttataa ttatatacat tatatttata tttatataat ttataattat | 480 |
| ataaattata taaattatata aaattatctt taatttatat tatataatct | 530 |

<210> 158
<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(337)
<223> MAR of chromosome 2 genomic contig; 73413615..73413951

| | |
|--|-----|
| <400> 158 acttatatta tatataacta tattattgta tattaatata aattaatgat atataatata | 60 |
| ttaatttatat attattatat gtgatataaa atacttataat ttatactgta tatatgtata | 120 |
| tacacacata tatgtatata tgtatatacacatatgta tatatgtata tgtatataatg | 180 |

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| | |
|---|------|
| tatactgtat atatgtatat acacacatat atgtatatat gtatatgtat atatgtatac | 240 |
| tgttatatatg tatatacata tatacatata tgatatatat cacatatatg tgatatataa | 300 |
| atatatttat ataaatataa tattaatatt tatatta | 337 |
| | |
| <210> 159 | |
| <211> 1340 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(1340) | |
| <223> MAR of chromosome 2 genomic contig; 77011049..77012388 | |
| | |
| <400> 159 | |
| atgtatttta tatagtatat attatgtatt atattgatat aattatataa caattattta | 60 |
| tatataaaaat aacaaataaa tatataaaaat aataaatata tatttattat taaataataa | 120 |
| atatatattt attattaaat aataaatata taaagtaata aatatatatt tatataattaa | 180 |
| ataattcata tatatttata tattaaataa ttcatatata tttaaataat taatacatat | 240 |
| ttaaataatt aatatatatt tatataatat atatttataat attaataat taatataat | 300 |
| ttatagatta aattaatata tatttatata ttaaattaaa tttaatataat tatatattta | 360 |
| tataatttaa atttaataat ttatataatt taatttaatt taatataatt aaaatatatt | 420 |
| aaacattata taatataataa tatatttaat atataatata tatttaatata ataataatatt | 480 |
| taatataataa tatatttaat atataatata tatttaatata ataataatatt taatataataa | 540 |
| tatatttaat atataatata tatttaatata ataataatatt taatataataa tatatattta | 600 |
| atatataata tatttaatata ataataatata tttaatataat aatatattta atatataata | 660 |
| tatatttaat gtataatata tttaatataat aatataatatt taatgtataa tatatttaat | 720 |
| atataatata tatttgatgt ataataatatt taatataat ttgatgtata atatatttaa | 780 |
| tatataatata atatttgatg tataatataat ttaatataata atatataattt gatgtataat | 840 |
| atatttaata tataatataat atttgatgtta taatataattt aatataataat atatatttga | 900 |
| tgtataatata atttaatata taatataatata ttgatgtata atatatttaa tatataatata | 960 |
| atatttgatg tataatataat ttaatataata atatataattt gatgtataat atatatttaa | 1020 |
| tataatataat atttgatgtata taatataattt aatataataat atatatttga tattatattta | 1080 |
| atataataata tattttgatg atataatata tttaatataat aatataatatt tgatataataa | 1140 |
| tatatttaat atataatata tatttgatgt ataataatatt taatataataa tatataatttg | 1200 |
| atataataata tatttaatata ataataatata ttgatgtata aatataattta atataataata | 1260 |
| tatatttgat atataatata ttcttattt aatttatttata atataatata taaatataata | 1320 |

ttaattaatt atatattaaa

<210> 160
<211> 937
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(937)
<223> MAR of chromosome 2 genomic contig; 78226855..78227791

| | |
|---|-----|
| <400> 160 | |
| tgtgtatata tacatatatg tgtatctatg tgtatatata catatgtgtatata | 60 |
| tatgtgtata tatacatatg tgtatatatg tgtatatatg tgtatatata catatatgtg | 120 |
| tatatatgtg tatatatgtg tatataaca tatatgtgtatata catatgtgtatata | 180 |
| tgtgtatata tgtgtatata tacatatatg tgtatatatg tgtatatatata catatatgtg | 240 |
| tatatatgtg tatataaca tatatgtgtatata tatatgtgtatata tatatacata | 300 |
| tatgtgtata tatgtgtata tatacatata tgtgtatata tgtgtatata tacatatatg | 360 |
| tgtatatatg tgtatatgtg tgtatatatata catatatgtg tatatacaca catatatgtg | 420 |
| tatatatgtg tatataaca tatatgtgtata tatacatata tgtgtatata tgtgtatata | 480 |
| tacatatatg tgtatatatg tgtatatatata catatatgtg tatacataca tatatgtgtatata | 540 |
| tatatgtgtatata tatacatata tatgtgtata catacatata tgtgtatata tgtgtatata | 600 |
| tacatatatg tgtatatacata catatatgtg tgtatatgtg tatacataca tatatgtgtatata | 660 |
| tatatatgtg tatacatatg tgtgtatata catatatgtg tgtatatatg tgtatatatg | 720 |
| tgtatatatata catatatgtg tgtatatatg tgtatatatata catatatgtg tgtatatatg | 780 |
| tgtatatatata catatatgtg tgtatatatg tgtatatatata catatatgtg tgtatatatg | 840 |
| tgtatatatata catatatgtg tgtatatatg tgtatatatata catatatgtg tgtatatatg | 900 |
| tgtatatatata catatatgtg tgtatatatg tgtatata | 937 |

<210> 161
<211> 1350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1350)
<223> MAR of chromosome 2 genomic contig; 79287748..79289097

| | |
|--|-----|
| <400> 161 | |
| tatatatatt atatatata tag taactgttct attatatata tattatata tatttctgttc | 60 |
| tattatata tattatata tattatata ttatatgtaa tatattatata tattataag | 120 |

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| | |
|--|------|
| taatatatta tataatttat atgtaatata ttatatatat tatatgtat atattatata | 180 |
| tattatatgc aatatgttat atatattata tgcaatatgt tataatattt atatgcaata | 240 |
| tattatatat attatatgca atatattata tataatata gtaatatattt atattatata | 300 |
| ttatatgtaa tatcttatattt attatatgtt atatattata tataatata gtaatatctt | 360 |
| atataatata tatatgtat attatattt atatgtata tattatctt tataatattt | 420 |
| atgtaatata ttatattata tattatatgtt aatataattt atatgtata tattacat | 480 |
| tataatgtat atataattata tgaatatata tacatattt atgtaatata tattatatgt | 540 |
| aataatattac atattatgtt taatattata catattatata gtaatatattt atatgtat | 600 |
| tatgtatattt attatatgtt ttatatgtaa tataatattt gtattatgtt tattatatgt | 660 |
| aataatattt atgtattata tgaatatata tataatattt atgtaattt attatatgtt | 720 |
| atataattata ttatattata tataatattt atgtaatata ttatattata tataatattt | 780 |
| attatatgtt atataattata ttatattata tataatattt atgtaatata ttatattata | 840 |
| tataatattt attatatgtt atataattata ttatattata tataatattt atgtaatata | 900 |
| ttatattata tataatattt attatatgtt atataattata ttatattata tataatattt | 960 |
| atgtaatata ttatattata tataatattt attatatgtt atataattata ttatattata | 1020 |
| tataatattt atgtaatata ttatattata tataatattt attatatgtt atataattata | 1080 |
| ttatattata tataatattt atgtaatata ttatattata tataatattt attatatgtt | 1140 |
| atataattata ttatattata tataatattt atgtaatata ttatattata tataatattt | 1200 |
| attatattt atatgtata tataatattt ttatattata tataatattt atatgtata | 1260 |
| tataatattt ttatattata tataatattt attattata tataatata tataatattt | 1320 |
| atattatattt atataatattt ctgttctaatt | 1350 |

<210> 162
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_difference
 <222> (1)..(332)
 <223> MAR of chromosome 2 genomic contig; 81142998..81143329

| | |
|---|-----|
| <400> 162 | |
| ctatgtatattt aactatata taaaacttata agatataaa ctattatata | 60 |
| acttaataag ttatataaa ctattatata taaaacttata agttatataat aactattata | 120 |
| taacttaata agttatataat aactattata taaaacttata agttatataat aactatataat | 180 |
| aacttaataaa gttatataat aactattataat aacttaataaa gttatataat aactattataat | 240 |

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| | |
|--|-----|
| aacttaataa gttatatata actattatata aacttaataa gttatatata actatatata | 300 |
| acttatatac aacttattaa gctatatata ta | 332 |
| | |
| <210> 163 | |
| <211> 327 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(327) | |
| <223> MAR of chromosome 2 genomic contig; 84019536..84019862 | |
| | |
| <400> 163 | |
| actgacagta tacatactgt atatatatac agtatgtata catatacagt atgtatacta | 60 |
| tatacagtat gtatactgta tatatatata cagtagtat actgtatata tatacagtat | 120 |
| gtatacgtat gtatactgta tatatgtatt atagtgata tatgtattat agtgtatata | 180 |
| tgtattatat atattatagt gtatgtatta tatgtgtata tacatataat atattataca | 240 |
| tatacatatg cacaatatgt atatgtatta tatgtattca tatacatata tgtatatgta | 300 |
| taatatatgt atacatataa tacacat | 327 |
| | |
| <210> 164 | |
| <211> 407 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(407) | |
| <223> MAR of chromosome 2 genomic contig; 1448030..1448436 | |
| | |
| <400> 164 | |
| tatataaat atattacata tatattatata ctatattatt tatattacat atgtaatata | 60 |
| tattatattt atattattta tataatataat tatatatattt atattattta tatgtaatat | 120 |
| atttataattt ttatataata ttatattttt attatttata tataatacat attatattta | 180 |
| tattattttt atataatata tataataaaat atataatata tataaaaata tatatattta | 240 |
| atatatctat aatatatattt atatatatta tatataatat atataattgt acatatattt | 300 |
| attatataata ttatataatata aatatatattt ataaatataa tatataaaata tatttataaa | 360 |
| tatataataaa tattatattt atacattata tttatataca tattata | 407 |
| | |
| <210> 165 | |
| <211> 1959 | |
| <212> DNA | |
| <213> Homo sapiens | |

<220>
 <221> misc_binding
 <222> (1)..(1959)
 <223> MAR of chromosome 2 genomic contig; 2117630..2119588

| | | |
|-------------|--|------|
| <400> | 165 | |
| tatacatgtt | atagtgtata tagtatacta atatataatg tatgtatgtg tatacatata | 60 |
| cacatataat | atacacatata ataatatata tagtatataa taatgtataa tatataatat | 120 |
| ataatataaa | atgtatagta tactacatata ttatatatag tatatagtat gcatagtaca | 180 |
| tatatactat | atatgtatgt tactatagtg tatatatagt acaccatata tagtataat | 240 |
| atactatata | gtatatgtac tatatatata ctatatagtata tatacgtat acatatatag | 300 |
| tataccata | ctatatagtata tatatagtgt gcgtatacta tatagtatat atagtgtgcg | 360 |
| tatactatat | agtatatata gtgtgcgtat actatatagt atatatagtg tgctatact | 420 |
| atatagtata | tatagtgtgc gtatactata tagtatata agtatacata tatagtgtgc | 480 |
| gtatactata | tagtatata agtatacata tatagtatgc gtatactata tatagtatac | 540 |
| atata>tagta | tatctagagt atatgtatgtat atatgtcta catactgtat | 600 |
| atacagtata | tatatactct atagtatact atacagtata gtatactata tagtatacaa | 660 |
| tatatgtata | ctatagaaac acactatata tagtatacta tatatactat atactatata | 720 |
| ctatata>tag | tatactatata atactacata ctatatacg tgtatgtata gtatataaa | 780 |
| actataata | gtgtatatacg tatataattt atatataata tatattatata tatattatac | 840 |
| tatataattt | atgtatatta tagtatatta tactattata tattatata tatattata | 900 |
| attatataat | ataatataat tatataattt aaaatataaa tttttatatt atatatttt | 960 |
| aaatatttt | taatataat tttataat atatattata attattttt atataatata | 1020 |
| aaatataata | aatattttt aatataattt tttaaaat aatatttata tattataaaa | 1080 |
| atataaata | ataatataattt atatattata tatagtataa tatataatata gttatatagt | 1140 |
| atcttatact | attatactat atatattata tagtgtatata atagtatact atatatagt | 1200 |
| tatatagtgt | atactatatagt gtatatagtg tatactatata tagtataatgt gtatactata | 1260 |
| tacactgtat | atagtagtgt atactatata cactgtatata agtagtgat actatataca | 1320 |
| ctgtatata | tagtgatatac tatatacact gtatatagtata gtgtatacta tatacactgt | 1380 |
| atatagtatgt | gtatactata tacactgtat atagtagtgt atactatata cactgtatata | 1440 |
| agtagtgat | actatataca ctgtatatacg tagtgatatac tatatacact gtatatagtata | 1500 |
| gtgtatacta | tatacactgt atatatagtata tattatataatctatataatgt tatataatgt | 1560 |
| atacatatata | attatataata cagtatataatgtatata ctatgtatgtata tatatagtat | 1620 |
| atatactata | tagtgatgtat agtatactat atagtgatata tagtgatata tatagtatata | 1680 |

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| | | | | | | | | | | | |
|-------------|-----------|-------------|------------|---------|----------|----------|----------|---------|----------|---------|------|
| atactatata | gtatatata | tgatattgtat | atata | gtatata | tata | actatata | at | gtatata | ta | ttatata | 1740 |
| gtatattgtat | atata | tgatata | tgatata | at | gtatgtat | ta | gtatgtat | ta | gtatgtat | 1800 | |
| atagtataca | tatata | tgatata | gtacacagta | tatata | gtct | at | atgtatac | ta | catatata | 1860 | |
| atacatgtat | actata | actac | atata | gtata | act | at | actacata | ta | gtata | 1920 | |
| gtatata | ctacatata | ac | tata | catgtat | act | at | actacata | ta | gtata | 1959 | |

<210> 166
<211> 520
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(520)
<223> MAR of chromosome 2 genomic contig; 2119984..2120503

| | | | | | | | | | | | | | |
|-----------|------------|---------|--------|------|------|----|---------|------|-------|------|------|------|-----|
| <400> 166 | tatgtatgca | tcgtata | cat | at | gtat | tg | catcgta | at | atata | ca | g | 60 | |
| | tatata | atgc | atcgta | ta | cata | ca | gtat | ta | ctat | at | act | 120 | |
| | atata | ata | ca | gtat | ata | ta | ca | gtat | ta | ctat | at | ac | 180 |
| | ata | ata | ca | gtat | ata | ta | ca | gtat | ta | ctat | at | gtat | 240 |
| | gtat | at | ca | gtat | ata | ca | ctat | ta | ctat | at | gtat | 300 | |
| | ctctat | at | at | at | at | ta | gtat | act | at | at | gtat | 360 | |
| | atata | ata | at | at | at | ta | gtat | act | at | at | at | 420 | |
| | gtat | at | at | at | at | ta | gtat | at | at | at | at | 480 | |
| | atgtat | acta | ta | ta | ta | ta | aa | ta | ta | ta | ta | 520 | |

<210> 167
<211> 954
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(954)
<223> MAR of chromosome 2 genomic contig; 2578285..2579238

| | | | | | | | | | | | | |
|-----------|-----------|-----------|------|------|------|----|---------|------|------|-----|----|-----|
| <400> 167 | tattatata | aacttataa | tata | ata | tata | ta | acttata | ta | tata | ata | ta | 60 |
| | tattatata | ataactt | tata | ata | tata | ta | actt | ta | tata | ata | ta | 120 |
| | tata | tata | ata | actt | tata | ta | ata | actt | tata | ata | ta | 180 |
| | aatatatt | ata | ata | actt | ata | ta | ata | actt | ata | ata | ta | 240 |
| | ata | ata | ata | actt | ata | ta | ata | ata | ata | ata | ta | 300 |

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| | |
|---|-----|
| atataatata tattatatat aactttataa tatataatat atattatata taactttata | 360 |
| atatataata tatattatat actatatata atatataact ttataatata taatatatat | 420 |
| tatatactat atataacttt ataatatata atatatatta tatattatata ataactttat | 480 |
| aatatataat atatattata tataacttta taatataaa tgtatattat atattatata | 540 |
| ttatataatta tatataactt tataatataat aatgtatatt atatattata tataacttta | 600 |
| taatatataa tatataatata aatatataac ttataatata atatatcata tattatata | 660 |
| aactttataa tatatatcat atattatata taactataat atatatatca tatattatata | 720 |
| ataactataa tatatatatc atatattata tataacttta taatataatat atcatatatt | 780 |
| atatataact ttataatata tatcatatata tataatataac ttataatata atatcatata | 840 |
| ttatataaa ctttataata tatattatata ataactttat aatatataatc atatattata | 900 |
| tataacttta taatataatata catatattat atataacttt ataatataata tcata | 954 |

<210> 168
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(452)
<223> MAR of chromosome 2 genomic contig; 3836217..3836668

| | |
|---|-----|
| <400> 168 | |
| tttatataata aatatatatac ttatataatata ttatataaa tacatataata tcttataatata | 60 |
| ataaaaatata tatacatatt tataatataaa atacatatgt attatataca tttatataata | 120 |
| atacatatgt attatataca attatataat acatatgtat tataacaat tataatataac | 180 |
| atatttataaa atatataatata ttatattat atatattat atataaataa atatataat | 240 |
| atagattttat ttatataaaat atatattat ataaatataat atttataatata atttataataa | 300 |
| atataatattt atatataatata ttatataatata atataaataat atgtataaaat atatataat | 360 |
| atacatatata tcatataaaat atatataatata atacatgtat ttatataatata atatattat | 420 |
| acatgtat atatgtat atatgtat atatgtat atatgtat atatgtat atatgtat | 452 |

<210> 169
<211> 417
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(417)
<223> MAR of chromosome 2 genomic contig; 3837666..3838082

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<400> 169
 gatatatata tttatataaa tatatatata aagagatata tttatatttatt tatttatata 60
 aatatatttc tttatataaa gatatatgtt aatatatttta tttatataaa tatatttata 120
 tatgtaaata tatatttata tttatatttatt tttatataaa aatatatata 180
 tttatatttatt tttatataaa tataaaaata tataaatata aatatatata aatatatata 240
 attataaata tagaaataaa tataaatata aatatataaa tatatataaa tataaatata 300
 tataaatata aatatatata aatataaata tataatgtt taaatatata aatataaata 360
 tatataaata tgtataaata tataatata taaatatata aaaatatata taaatac 417

<210> 170
 <211> 1197
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1197)
 <223> MAR of chromosome 2 genomic contig; 6294846..6296042

<400> 170
 tatatactaa tatgtatata taaatatata aatatatata cacgtgtata tataaatata 60
 tatgtatata taaatatata tacatatatg tatataaaaa tatatacgta tatacgta 120
 tacgtatata tagatatata cgtatatacg tatatacgta tatatagata tatacgta 180
 tacgtatata tagatatata cgtatatacg tatatacgta tacatgtgtt tatacgta 240
 tacacatata cgtatacatg tgtatatacg tatatgtata cattatata acgtatata 300
 acatatatgt atacatgtat atataaatat atacatataat gtatatatta tacatatgt 360
 tatatataat atatatatta tatataatat atatattata tataatataat atattatata 420
 taatatataat attatatata atatattata tattatataat aatatataca tataatataat 480
 attatatataatg tacatatgtt cataatgtat atatgtatata atataatata tatgcacatg 540
 tatatataat atatgtatata tatatataca tatgtatata tgtacatatt atatatgtat 600
 atatgtacct attatataca catatgtata tatgtaccta ttatatacac atatgtatata 660
 atgtacatata tataatataca tatgtatata tgtacatatt atatatacat atgtatata 720
 gtgcacatgcata tataatata taatatatta tagattataa tattatatac atatcatata 780
 ttatataactt atatatacat gtatatatta tatacatatt atatattata tacatataat 840
 atatgtatata aatatataca tatattatata attatataat atacattatg ttatataat 900
 tgttatataa tatatattat ataatataca tatattataat ataatataca cataatataat 960
 aaataatata taattatata tataatataat gcatataaaat atgtaatata ttttatatta 1020

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| | |
|--|------|
| tatatgatca tatataatat gacatattat atatgattat atatatgata tattatatat | 1080 |
| gattatatat attatatata aatatatgat tataataat catatataa aatatatgat | 1140 |
| tatatgatta tatataaata tatataatg attatatgat tataataat tgattat | 1197 |
| | |
| <210> 171 | |
| <211> 362 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(362) | |
| <223> MAR of chromosome 2 genomic contig; 6506971..6507332 | |
| | |
| <400> 171 | |
| tatataagt gtatactata tatacgctat atgcacacat aaactatata tacagtatat | 60 |
| aatatgcgt tactatatac acagtatata ctacatgtat actatataa gtatataaga | 120 |
| tatatactat gtatataata tatatactag gtatataat ccatatata actatatact | 180 |
| atagtatata catatataatg tacgtatata tgtatatgta catatataatg tagtatgtat | 240 |
| atataatacat atatacacac tatagtatata acatataat actatataa ccctatata | 300 |
| agtatattat atacagtata ctatataac tatataacc ctatataagag catgtctatg | 360 |
| ct | 362 |
| | |
| <210> 172 | |
| <211> 2578 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(2578) | |
| <223> MAR of chromosome 2 genomic contig; 6507395..6509972 | |
| | |
| <400> 172 | |
| ggtatactat atatactata gagtatactt tatagtatata atacctata tatataata | 60 |
| tacatacact gtatagtata tatggtatata atactatata tggcatata agtttatata | 120 |
| tatactatata atggtatata tagtttatata atatactata tatggtatata atagtttata | 180 |
| tataccatata atggtatata tagtttatata agtacatata gtatataac acactgtata | 240 |
| gtatataatata ttttatata atactatata tactgtatata atagtataaa tactatata | 300 |
| agtatacact atatactata cactatata actataact atatactata tatagtatac | 360 |
| tatatagtat atagtataact ctatatgtac tatagagtat actatataa ctatacataa | 420 |
| aatatttta tatatagtac agcgtatact atatactata tatagtatac tctatatgta | 480 |
| ctatagagtg tagtatatac tatacagtat actctatata tactatacag tacactata | 540 |

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| | |
|--|------|
| atactatata tagtatattt tatatatagt acagtatata cagtatatat attatactat | 600 |
| atgtagtaca tatatagttt agtatatac gtatatac tatactatat gtactacata | 660 |
| tataatagta tatatagtat atatactata ctatatgtac tacatatac gtttagtata | 720 |
| tatactatgt tatagatata tagttatata gatataat agtatatac gtatatacgt | 780 |
| catacatatgt atatatgtca tatactatata atagcatata ctatatacta tatatacagt | 840 |
| atataatgcata tatatagtat atataatata tatactttt atatacatac tatatacagt | 900 |
| atataatgtat tatatactgt ataaatatac tatataacc gtatatgcac actatatgtc | 960 |
| atataatatac tatacactat atacagtata tatagtagcac tatactatata aaagtatata | 1020 |
| tagtatacag tacactatac tatatacatt atatatagtat tatattatac atatgtata | 1080 |
| gtatataaat agtatatacag tatataatata gcatactta tatagtatac | 1140 |
| acagtatata gatactatata atgctatata tagtatctat atactgtata ttatatac | 1200 |
| taatatagtat tatatgtata tatatactgt atatataata tatacatata tagtatata | 1260 |
| actatacata cacactatac atatgtatata atactataca tactatatac tatatacc | 1320 |
| atataatatac tatagtatata tatataccct atataacta tatagtagtat tatatacc | 1380 |
| atataatatac tatagtatata tatataact atataccata tatactatata atactgtata | 1440 |
| gtatactata tatactatata agtatactgt atatactata tagtatactg tatatactat | 1500 |
| atagtatact gtatatacta tatagtatac tgtatatact atatgtata ctgtatatac | 1560 |
| tataatgtat actgtatata ctatatac tatatagtat actgtatata ctatatagt | 1620 |
| tatactatatac atatataacc atatatacta tgtatatact atatatagtat tatactatgt | 1680 |
| atatgctata tatagtatata atatgtatata tgctatata agtatatac gtatatac | 1740 |
| tataatataca gtctatatac agtatatac ctatatacgt tatataatata gcataatatac | 1800 |
| tataatatact atatataata tatatggat atacatagta tctatatgtat gtatctatata | 1860 |
| atagtaccta tatatactat atataggta tatatactgt atatatactt tatatagtata | 1920 |
| ctatatactat tatataact ttatatagtat tatatagtat atgtacatac tatatagtat | 1980 |
| atagtatata tagtatatac tatgtatatac atatatagtat tatattgtat atacagtata | 2040 |
| tatactgtat atactatata aatagtacat acagtatata cagtatatat gtactatata | 2100 |
| tagtatatac agtatataca gtatatactgt accatatacgt tatatacag tatatacagt | 2160 |
| atataatgcac tatatgttat atacagtata tacagtatac atgtactata taaatagaat | 2220 |
| atactctata tacagtatac atgtactata taaatatacactatgtac agtatatacgt | 2280 |
| tactatataa atagtatata cactatatac agtatatacgt tactatatacgt taaaatatac | 2340 |
| atatacagta tataggtact atatatggta tatacagtgat atatgcacta tatggtatata | 2400 |

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| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| acagtatata | tgcactatat | atggtatata | cagtatatat | gtactatata | tggtatatac | 2460 |
| agtatatatg | tactatatat | ggtatataca | gtatatatgt | actatatatg | gtatatacag | 2520 |
| tttatacagt | atatatgcac | tatatatggt | atatacagta | tacatgtact | atatatgg | 2578 |

<210> 173
<211> 598
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(598)
<223> MAR of chromosome 2 genomic contig; 7770400..7770997

| | | | | | | | |
|-----------|------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 173 | gtgtattgta | tatacatata | cgtatctacg | tatatacata | tatgtattgt | atatacatat | 60 |
| | atgtattgta | tatacatata | tgtatatacg | tatatacata | tatgtattgt | atatacatat | 120 |
| | atgtatatac | gtatatacat | atatgtatat | acgtatatag | atatacatat | atatgtattg | 180 |
| | tatatacata | tatgtatata | catatataca | tatataattga | tatacatata | tatgtattgt | 240 |
| | atatacatat | acaatataatg | tatataaca | tatacatata | caatatatgt | atatacatat | 300 |
| | atatgtattg | tatatacata | tatatgtatt | gtatatacat | atattgatat | acatataatgt | 360 |
| | atatacatat | atatgcata | atgtatata | acatataatgc | atatagtat | atatacatat | 420 |
| | atacatatgt | acatataaac | atatacatat | atatgtatat | atacatata | acatatgtac | 480 |
| | atatacatat | atatacatat | gtacatata | acatataaac | atatgtacat | atatacatat | 540 |
| | atagatata | atacacatat | atagatatac | ttatatgtat | atatacatac | atacatat | 598 |

<210> 174
<211> 1048
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1048)
<223> MAR of chromosome 2 genomic contig; 8332422..8333469

| | | | | | | | |
|-----------|------------|-------------|------------|-------------|-------------|-------------|-----|
| <400> 174 | cattatata | aatatataat | atattattat | atataatata | tataacatta | tatatagtat | 60 |
| | atatgacata | tataacatat | atttatata | acatatataa | aatataacat | atttatata | 120 |
| | acatatataa | aatataacat | atattatata | taacatata | aaaatataac | atataattata | 180 |
| | tataacatgt | ataaaatata | acatatatta | tatataacat | gtataaaata | taacatata | 240 |
| | tatataacat | gtataaaacta | taacatata | tatataaaa | atataattata | tgttatata | 300 |
| | tataaataaa | atataattata | tgttatata | tataacatata | tatataaaata | atataataata | 360 |

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| | |
|---|------|
| tataacatat atttatataaa taatataataa catatattat ataaataata tataacataa | 420 |
| catatattat ataacatata acatataaca tatatttat ataacatata acatataaca | 480 |
| tatatttat ataacatata acatataaca tatatttat ataacatata acatattatta | 540 |
| tatttatata aacatataac atatattata ttatataaa catataacat atattatatt | 600 |
| atataataaca tataacatat atttatattat atataacata taacatatat tatatttat | 660 |
| ataatataata acatatatat tatataaat atataacata taacatatat tatataataat | 720 |
| ataatataata acatatatta tatataat aatataaac atatattata tataatataa | 780 |
| tatataacat atattatata taatataata tataacatat atttatata atataatata | 840 |
| taacatatat tatatataat ataataatata acatatatta tatataat aatataaac | 900 |
| atatattata tataatataa tatataacat atataatata taacatatag cataatataat | 960 |
| atataacata taacatatat tatatataac atataacata tatttatata aacatataac | 1020 |
| atataataata tgtaacatta tatataac | 1048 |

<210> 175
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(375)
<223> MAR of chromosome 2 genomic contig; 8909678..8910052

| | |
|---|-----|
| <400> 175 tatatacaca tatatacgta tgaatataata tacacatata cgtatgaata tatataccca | 60 |
| tatacgatg aatatacaca tatatacg tacgtatata tatacacata tatacgtag | 120 |
| tatataata cacatataata cgtacgtata tatatacaca tatatacgta cgaatatata | 180 |
| tacacatata tacgtacgaa tatataaca catatatacg tacgaatata tatacacata | 240 |
| tatacgtag aatataataata cacatataata cgtacgaata tatatacaca tatatacgta | 300 |
| cgaatatata tacacatata tacgtacgaa tatataaca catatatacg tacgaatata | 360 |
| tatacacata tatac | 375 |

<210> 176
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(563)
<223> MAR of chromosome 2 genomic contig; 10572503..10573065

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<400> 176
atttataata tatatgtata aatatatgtat tatattttata tttaaatata tgttatata 60
tttatattta aatatacgta tatataattta tatttaaata tacgtgtata tatttatatt 120
taaatatacg tgttatattt tatatttaaa tatacggtat tatattttata tttaaatata 180
cgtgtatata tttatattta aatatacggtat tatataattta tatttaaata tacgtgtata 240
tatttatatt taaatatacg tgttatattt tatatttaaa tatacggtat tatttatatt 300
taaatatacg tgttatattta tatttaaata tatgtatgtat tttataaata tatatttaaa 360
gtatatattt ataaatgtat acatgtat ataaatata atattttaaa tatataattta 420
tatataattt tatataattta tataagtata tatataattta aatatagtat tatattttata 480
tatttatata agtataatata tttaaatata tgttatattt tataatata attttaaata 540
tatattttata tattttattat ata 563

<210> 177
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(595)
<223> MAR of chromosome 2 genomic contig; 11609694..11610288

<400> 177
tataaatact atatatagtat tatataatatact atatataat atatgtatgtat 60
taaataatata ataatataga tatataatataat aatataatataat gttataaata taaatataatt 120
tatataattt aattttataat atataatata taatataataa tttaattttta taatataataa 180
tatataattt aattttataaa tatataatataat ataatagtat aatttatataat aattttataat 240
atctaaatta tataattttaa atataatataat aatataaataa tatctaacat aatatacata 300
acataaataat atatagtata tatagtacat ataaatataat atagtcata tagtatataat 360
aaatataatag tataatataaa tatagtatataat ataaatataat agtataatata tagtatataat 420
aaatataatag tataatataaa tatataatagt atatataaaat aatataatagt atataaataa 480
tatataattt taaatataat aataattttat tatataact atatattttat atgtattttata 540
ttatataatata tattttatata ttaatataat ttatttata tattatattt aatata 595

<210> 178
<211> 662
<212> DNA
<213> Homo sapiens

<220>

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<221> misc_binding
 <222> (1)..(662)

<223> MAR of chromosome 2 genomic contig; 12699804..12700465

| | |
|--|-----|
| <400> 178 | |
| gtatatatat atatatatat atggtgtata tatatatata tataatggt gtatatatat | 60 |
| atatatatat atggtgtata tatatatata tggtgtatat atatatatgc tgtatatata | 120 |
| tatggtatat atatatggta tatatatatt tgctatatat atagcagatc tgctatatat | 180 |
| atatatttgc tatatatata gcagatctgc tatatatatt tgctatatat atgctatata | 240 |
| tatgctacat atatgctata tatatgctat atatatgcta tatatatgct atatatatgc | 300 |
| tatatatatg ctacatatat gctatatata tgctacat atgctatata tatgctatat | 360 |
| atatatgcta tatatatgct atatatata gctatatata tgctatatat atatgctata | 420 |
| tatatgctat atatatatgc tatatatatg ctatatatat gctatatata tagcatatat | 480 |
| atatagctat atatatgcta tatatatagc ttatatatat gctatatatg ctatatatat | 540 |
| gctatatata tagctatata tagctatat atagctatat atatgctaca tatatgctat | 600 |
| atatatgcc a tatgtatgct atatatatgc tatatatata tgctatatat atgctatata | 660 |
| ta | 662 |

<210> 179

<211> 649

<212> DNA

<213> Homo sapiens

| | |
|--|-----|
| <220> | |
| <221> misc_binding | |
| <222> (1)..(649) | |
| <223> MAR of chromosome 2 genomic contig; 12821904..12822552 | |
| <400> 179 | |
| tatgtaatat tatatatata aatttatata tatacatatg taatattata tatatataaa | 60 |
| ttatatatta tacatatgta atattatata tatataaatt atatattata catatgtaat | 120 |
| attatatata tataaattat atattataca tatgtaatat tatatatata taaattatata | 180 |
| attatacata tgtattat atataaatta tatattatac atatataata tatatataaa | 240 |
| ttatatatta tacatgtata atatatataa attatatatt atacatatat aatatatata | 300 |
| aattatatat tatacatata taatatatata aaattatata ttatcatat ataatatata | 360 |
| taaattatata attatacata tataatatat ataaattata tattatacat atataatata | 420 |
| tataaattat atattataca tatataat atataaatta tatattatac atatataata | 480 |
| tatataaatt atatattata catatataat atatataaat tatatattat acatatataa | 540 |
| tatatataaa ttatatatta tacatataa atatatataa attatatatt atacatatat | 600 |
| aatatatata aattatatat tatacatata taatatatata aaattatata | 649 |

<210> 180
<211> 3191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(3191)
<223> MAR of chromosome 2 genomic contig; 15356889..15360079

| | |
|---|------|
| <400> 180 | |
| tacaattata tataactata aatataatat aatatatatt atctatatta catattaata | 60 |
| tataatatat attacctatt aatatataat ataatatata taatatatat tacctattaa | 120 |
| tatataat aatatataata atatatatta cctattaata tataataaaa tatataaat | 180 |
| atatattaca tattattata taatatatat tatataacat atataacata tactatata | 240 |
| tatataacat atataattgt atatgtatta tatatattat atatactt acataatata | 300 |
| taaataatta aatatatgtt ataaatataa caaatatata acatataaa cataatataac | 360 |
| atataatataa ttacataaaa tatataatac ataatatata ttatgcaaca tattatataa | 420 |
| tatataacat ataatgtata ttatattata tcataatata tacataatat ataatataatg | 480 |
| atataatata atatattata tatgatataa tataatatat tatatatgtt ataatataat | 540 |
| atatattata tataggatat attataacat attacatatg atataataaa ttttatctta | 600 |
| tatataaggat atattataat atatcacata tagcatatat taaaatatat tacatatagt | 660 |
| atattatata tactatatgt atatatacat atagtatatt atagtatatt atacagtata | 720 |
| tattatatat actatatata gtagtataca gtagtatatta tatatactat atatagtatg | 780 |
| atacagtata tattatacag tatatattat atacactata ttatatatta tgtataatat | 840 |
| atactatata tagtatatta tgtatatat attaaacata atagatatat agtataact | 900 |
| atagataata gatattatat agtataatgt atatattata tataatatat ataatata | 960 |
| ttatatacat atatgatata tgatatatta tatataatata atataatata taatataatgt | 1020 |
| aatataatac atattatata taatatatgt aatataatata aatataatata atatgtata | 1080 |
| taataatata tattatataa tataacatata ataaatataa taatatatata tatatgat | 1140 |
| aacatacata aatataataa catatataat atatattata tattatattg tatatatgt | 1200 |
| atactatata ttacacatta tacattattt ataatatata attaatatata aacatata | 1260 |
| agataacata taattatatac tgtaacatata ataagatata attacatata taacatata | 1320 |
| aattatatat atattatct aattatataat gaaattatata atgacatata aaattatata | 1380 |
| ttatatatgt tatatgtatt atatattata tatgttatata atgttatata taacatata | 1440 |
| aacatataata acacacacat ataacatata taacatata tacatataata acatataaa | 1500 |

| | |
|---|------|
| cacatatata attatctaac atagataata tataataat ataataatac atatatta | 1560 |
| tatattatac actctattat attatataaa ttatacataa tataataat atatgata | 1620 |
| atataataca ttgtatatac gatataat atattgtaca tagtataata tacatata | 1680 |
| gtatattatg tataacataa tatatagtat attatgtata acataatata tagtatata | 1740 |
| tgtataacat aatataatgt atattatgt taacataata tatagtatata tatgtataac | 1800 |
| ataataataa gtatattatg tataacataa tatatagtat attatgtata acataatata | 1860 |
| tagtatata tgtaacat aatataatgt atattatgt taacataata tatagtatata | 1920 |
| tatgtataac ataataataa gtatattatg tataacataa tatatagtat attatgtata | 1980 |
| tataatatac atattatata gtatattatg tataatataat atacatatta tatagtatata | 2040 |
| tatgtatata taatatacat attatatagt atattatgt tataataat acatattata | 2100 |
| tagtatata tgtaatata atatacatat tatatagtat attatgtata tataatatac | 2160 |
| atattatata gtatattatg tataatataat atacatatta tatagtatata tatgtatata | 2220 |
| taatatacat attatatagt atattatgt tataatataat acatattata tagtatata | 2280 |
| tgtatata atatacatat tatatagtat attatgtata tataatatac atattatata | 2340 |
| gtatattatg tataatataat atacatgtta tgtagtatata tataatatac | 2400 |
| gttatgtat atattatgt tataatataat acatgttatg tagtatata tgtaatata | 2460 |
| atataatataa ggtgtatata tattatgtat atataatata taaggatata atattatgt | 2520 |
| tatataatata atataagggtg tttatataat gtatataaa tataatagggt atgtatatta | 2580 |
| tgtatata atatgtatata tataatataat atatattatt tataatacc atgtatctat | 2640 |
| ataatataata ttatgtatata attaggatc tataatataat atattatgt tataatattat | 2700 |
| gtatctatata aatataatata ttatgtatata atattatgt tctatataat atataatatta | 2760 |
| tatgtatata atgtatctat ataataatata taatgtatata agatatatta tatattatgt | 2820 |
| atataatata tttatctatt ttatataataa tttatataa tatacaatata atattatgt | 2880 |
| tatattatgt atctatataa tataatattat ttatatagtat atataatatta tgtaatata | 2940 |
| cataatataat tacatattat gtatataac ataataatata atatattatg tataatataca | 3000 |
| taatataataa tataatataat attacatata ttatataataa tataatataat tatgtatata | 3060 |
| tattatgtat atataatgtat tataatataat ataaagtgtat tataatattgt gtatataaa | 3120 |
| tgtatataata ttacatataat tatgtgtata tataatatac ataataatata tactacatta | 3180 |
| tacataatata g | 3191 |

<210> 181
<211> 314
<212> DNA

<213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(314)
 <223> MAR of chromosome 2 genomic contig; 728676..728989

<400> 181
 tgtgtatata ttttatata atatatatata tataatatgc atatgtataa aatatgtata 60
 ttatatatgt atatttata tatatgtata tattatatgt atatttata tatgtatatt 120
 ttatatatat gtatatatta tatatgtata ttttataat atgtatataat tatatgtata 180
 ttttataat atgtatataat tatatatgtat tattttataat atatgtataat attatataatg 240
 tatatttat atatatgtat attttataat tatgtatatac atatataatgt atatattata 300
 tatatgtata tctt 314

<210> 182
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(423)
 <223> MAR of chromosome 2 genomic contig; 737493..737915

<400> 182
 ataatatata gtttctttta tattatctaa tatgtatataat aatgtatttt atattatgtat 60
 ttttatata tataatataat aatataatgt attttatattt atatgtata taatataatag 120
 tgcattatata attatgttat attatataata ttttattatata ataaattata tattatatgt 180
 tattttataat atattatataata acatataata taacaatgca ttatataatata taaaatataat 240
 aatacattac atatattataata taatataata tacattacat atattatataata atatataata 300
 cattatcata tattacaaat attacattag tataatagta attataatata aatataattat 360
 atattacata tattatataata atgtatagt aattataataata taatataatata tattttat 420
 att 423

<210> 183
 <211> 724
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(724)
 <223> MAR of chromosome 2 genomic contig; 1069556..1070279

<400> 183

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| | |
|---|-----|
| tattataata tattatatac attatattgt atatatacta tatatggtat atatagtata | 60 |
| cataatataa aatgtatatt gtaatataca ttatatatat acatagtgt a cattatataa | 120 |
| tataatataa tgtatattat aatatacatt ataataaat agtgtactat gtatatagt | 180 |
| tatataatgt atattataat gtattatata gtataatata atataatata cattatatag | 240 |
| tattgcatta tattatgtat ataataatata atatattatg tattatataca ttatataac | 300 |
| tatattatata agtacatata atgtatatta tattatata atataatata acattataca | 360 |
| tacaatataat aatgtatatt atatagtatg tataatgtaa tacattatac atatgtacata | 420 |
| aagtatatta taatataatata taatataaa tatacattat atattataat gtatataata | 480 |
| tattgtatata atactatata taatgtatata acaattatata atattgtat atatacatgt | 540 |
| atatgtatata gtatatacac atgtatatgt atgtgtatata atacatataat gtatatgtat | 600 |
| gtgtatataat gtatatgtat atatgtatata gtatacgat atatgtatata acaatgtata | 660 |
| tataatgtatata ataaaaatata atataatata caatatgtat atataatgtata taattatata | 720 |
| atataat | 724 |

<210> 184
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(383)
<223> MAR of chromosome 2 genomic contig; 2719918..2720300

| | |
|--|-----|
| atatttatat ttttatattt atttatataat aaatataat ttatattta tatattattt | 60 |
| atataataat atatattttt attttatata ttatattatata ataaatataat atttatattt | 120 |
| tatattattat ttatataataa atatattttt atattttata tattattttt atataaataat | 180 |
| atattttatatt ttttatattt attttatataat aaatataat ttatattttt tatattttt | 240 |
| atataataat atatattttt attttatata ttatataattt atatattata tatattttata | 300 |
| ttaatttgta tataatataat attttaatata atataaaataa tattttttt tatattttt | 360 |
| ataaaaatata atataatataaaa | 383 |

<210> 185
<211> 309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(309)

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<223> MAR of chromosome 2 genomic contig; 4994249..4994557

<400> 185
tataatatat aattgttata acattataac aattatatat tatataaat acaattatat 60
aatatataatt atataattgt aatataaat ataattatat aatataattt atataatata 120
atatataata tatcatatat gtttatattt ttattatata atatataatta tatataat 180
tatataataat atatattata tataatatta tatataat atattatata taatataattt 240
atataatatta tatataat atattatata ttaaatatta tatataat atatataaca 300
ttattgtta 309

<210> 186
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(740)
<223> MAR of chromosome 2 genomic contig; 5034916..5035655

<400> 186
tttatatata aaatattata tataatatta tatataat tttctatata aatgtgtat 60
ataattatat ataattatat aaaatataat atagaatatc taataatgtta taatataata 120
catataaaaa taatattatt taatataaa tattttatata ataattttt tatataat 180
ataatataata ttttatataat aattattaat tatataatta atatataata tatattttat 240
acataattat taattatata taattaatata ataattatatc ttatacataa ttatcaatta 300
tatataatta atatataata tatattttat acataattat taattatata taattaatata 360
ataatataatc ttatacataa tatataaaa tatatttatata ataattatata ttatataataa 420
tatttatata aatatatatt atatataaa aatttatata taatattata tataatatta 480
tatattttat atacaatatg atatataata taattttatata attatataata ttttatata 540
attatttatata aaatttatata aatataaattt atatattttat atataattat tatataaaatc 600
attatataat tattataattt ataattatata atataatata atattatata taatataatag 660
tattctatata aaataatata acatatattt tatatagaat atttatata atataatata 720
tatattttatata agaatattat 740

<210> 187
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding

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<222> (1)..(847)

<223> MAR of chromosome 2 genomic contig; 6074678..6075524

<400> 187

| | |
|---|-----|
| aatatagaca taaatatata tgcataaata tatatatgca taaatatata taaaaatata | 60 |
| tataaatata tacataaata tatataaata tataaaaaaa tatataaaa tatataaaaa | 120 |
| aatatataaa tatatataca catatataaa tatatataca tacatatata aacatatata | 180 |
| cataaatata tatgtataaa tatatataca cataaatata tgtatgaata tatatacata | 240 |
| aatatatatg tataaatata tatacataaa tatataaaga tatatacata aatatatata | 300 |
| aatatatata cataaatata tataaatata tataataga tatataata tatataaaa | 360 |
| tatataaata tatatataaa tatataaata tataaaaata gatatataaa tatatata | 420 |
| aatatataaa tatatatata aatatatata aatataaaa tatatatata aatatatata | 480 |
| aatatataaa tatatataaa tatataaata tatatataaa tatatataaa tatataaata | 540 |
| tatataaata tatataaata tataaatata tatataaata tatataaata tataaatata | 600 |
| tatataaata tataaatata taaatatata tataaatata taaatataata taaatata | 660 |
| taaatatata aatatatata aatatatata aatataaaa tatatataaa tatatataaa | 720 |
| tatatataaa tatataaata tatataaata tatataaata tatataaata tatataaata | 780 |
| tataaatata tatataaata taaatatata taaatataata aatatatata taaatata | 840 |
| taaatat | 847 |

<210> 188

<211> 784

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(784)

<223> MAR of chromosome 2 genomic contig; 6108986..6109769

<400> 188

| | |
|---|-----|
| atttatttat atatthaata tataaaatat atatthaata tataaaatgt atatatacac | 60 |
| atatattata tataatacaa tatatattat atataatata tattatatat aatattat | 120 |
| attatattat aatataatat atattatata taatataata tatattatatt attattat | 180 |
| ataatataat atatattata tattattata tataatataa tatattattat atattatt | 240 |
| atataatata atatattata tattattata tatataatat aatatattat atatata | 300 |
| tttatatata taatataaa tatatattat atatataat tttatatata taatataa | 360 |
| tatatatatt atatataat tttatatata taatataaa tatatattat atatata | 420 |
| tttatatgtta taatataaa tatatattat atatataat tatatataata taatatgt | 480 |

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| | | | | | | |
|-------------|--|-------------|------------|-------------|------------|-----|
| tataatatatt | atatatatat | tatatatata | atatatatta | tacataaaaat | atatattata | 540 |
| tataatata | ataatata | ttatataaa | aatatattt | atgtataata | tatattata | 600 |
| ataatata | atgtatattt | atataaaaa | tatataattt | tatacaatgt | atatttat | 660 |
| ataaaatata | tatttatata | caatgtatat | ttatataaat | atgtgttaa | tatatgaaat | 720 |
| atatatttat | atataatata | tatthaatct | ataaaatata | tatcaaataat | atatttat | 780 |
| ttaa | | | | | | 784 |
| | | | | | | |
| <210> | 189 | | | | | |
| <211> | 381 | | | | | |
| <212> | DNA | | | | | |
| <213> | Homo sapiens | | | | | |
| | | | | | | |
| <220> | | | | | | |
| <221> | misc_binding | | | | | |
| <222> | (1)..(381) | | | | | |
| <223> | MAR of chromosome 2 genomic contig; 10389032..10389412 | | | | | |
| | | | | | | |
| <400> | 189 | | | | | |
| tatacacata | tagagtatat | agagtatata | tagagtatat | ctatagagta | tatatgtata | 60 |
| tagagtatat | aatacagcct | accatatata | tagtatacat | atatatatac | tctatatact | 120 |
| atatatata | tagtgtatata | tatagtatag | accctaccat | atatatata | aggagtata | 180 |
| atatacacac | actcctacta | tatatagtat | gtatatacg | agtatataga | gtatatac | 240 |
| agtatata | cacagtatat | atatgccata | tatagtatct | atatactt | atatagtat | 300 |
| tatctatata | cttataatata | gtatgtatct | atatactata | tatagtatgt | atctatatac | 360 |
| tatata | tagagt | atataatgtat | a | | | 381 |
| | | | | | | |
| <210> | 190 | | | | | |
| <211> | 507 | | | | | |
| <212> | DNA | | | | | |
| <213> | Homo sapiens | | | | | |
| | | | | | | |
| <220> | | | | | | |
| <221> | misc_difference | | | | | |
| <222> | (1)..(507) | | | | | |
| <223> | MAR of chromosome 2 genomic contig; 11097807..11098313 | | | | | |
| | | | | | | |
| <400> | 190 | | | | | |
| aattatata | aattttat | atataat | ttt atat | tat tttata | tacatattt | 60 |
| atataat | ttt | ataattat | attacatata | taatattata | taatataat | 120 |
| atataat | ta | atata | at | atataat | atataat | 180 |
| tataat | atataat | ataatata | taatataa | tatattat | ataatata | 240 |
| tataat | atataat | ataatata | taatataa | tatattat | ataatata | 300 |
| ataataat | attatacata | atttatata | attttata | taattatata | tatttatata | 360 |

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| | |
|--|-----|
| tttttatata attatatata tttatataatt tttatataat tatatatatt tatatatttt | 420 |
| tatataatta tatatataat tttatataaa atatatataaa tttatataaa tttatataaa | 480 |
| ttataaaata tataattata tataatt | 507 |

<210> 191
<211> 329
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(329)
<223> MAR of chromosome 2 genomic contig; 11234628..11234956

| | |
|--|-----|
| <400> 191 | |
| tttagttaa atatataaaat ataaaatata cagtttata cagtatataat aaaatataca | 60 |
| atataataata cataatacat tagttatata tactatataat actatataata ctacacgtat | 120 |
| agtatataata tgaaaactata tatatactat acgtgttagta tatataatgaa actatataata | 180 |
| tactatacgt gtatgtatata tatgaaacta tatactatac gtatagtata tatatgaaac | 240 |
| tatataact atatataactt aactataatt gtatatagtt aaaaatataaa atataaaaata | 300 |
| tacagttaaa tatattaata tataatagt | 329 |

<210> 192
<211> 584
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(584)
<223> MAR of chromosome 2 genomic contig; 797844..798427

| | |
|--|-----|
| <400> 192 | |
| tattatttta tggataaaat agataaaaat atatactaatt atatatgtac ttatataatac | 60 |
| atcaatataat aatgtattat tttatactaa cgtatattat atataactgt atataatcta | 120 |
| tattatttta tatgttataaa atatataata aaatataataaa atatttatg catatattaa | 180 |
| tatataatata atactaacat gctaatttat atatacttata atataattta tatagtataat | 240 |
| aatatataaaa tgtatataat acataattta tatatttata tattaatagt ttatataatta | 300 |
| gtatataatac taatttata tactaataaa taaatttat aatatataaaa ttatataatta | 360 |
| tagtacataa tatataattat atagttaaat aactatgtaa ctataatata taactatata | 420 |
| tgatatacag ttatataataa tataaatttt acatacagta tataaatttat atactataca | 480 |
| tttatataaca tatggatatataa aaatttatata ctatacattt atatacatat ggtatataaa | 540 |

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| | |
|---|-----|
| ttgtatacta tataatgtgt attagtatata atactaatat atac | 584 |
| | |
| <210> 193 | |
| <211> 363 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(363) | |
| <223> MAR of chromosome 2 genomic contig; 1093824..1094186 | |
| | |
| <400> 193 | |
| tatacacaca catatatata cacatatata tacacatata tatatacaca tatatacaca | 60 |
| catatatata cacgtatata tgtatacaca tatatatgtt tatatacaca catatatata | 120 |
| cacatatata cgtgtatata cgtatatacg tacatatata cgtgtatata cgtatatgcg | 180 |
| tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg | 240 |
| tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg | 300 |
| tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg | 360 |
| | |
| tac | 363 |
| | |
| <210> 194 | |
| <211> 545 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(545) | |
| <223> MAR of chromosome 2 genomic contig; 3456187..3456731 | |
| | |
| <400> 194 | |
| tattataata tatatttata tattataata tatatttat tatattttt tatattataa | 60 |
| tatattattt attatattt tatattttt aatatattt atattataat atatatttt | 120 |
| attataat attatattt aatatattt atattttt atattataat ataataatata | 180 |
| ttataatata tattatatta taattttat attatataa ttataatata tattatatta | 240 |
| tatattattt tatattataa tatattttt tatattttt atattataat ttatattata | 300 |
| ttacaatata tattataat atatattta tattataat atatattttt atattacaat | 360 |
| atatattata aatatattt ttatattaca atatattta taaatataa tattatatta | 420 |
| caatatata tataatata tattatatta caatatata tatattataa tatattttt | 480 |
| tatattttt attatattta atatattata taacataata tataatataat aatatattaa | 540 |
| | |
| tataa | 545 |

<210> 195
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(356)
<223> MAR of chromosome 2 genomic contig; 5001567..5001922

| | | |
|--|-----|--|
| <400> 195 | | |
| tataaaat atgttatata tataatatat attatataat atataatata tataatatat | 60 | |
| aaaatataa aaatatataa tatataat aatatataat atatataata tataaaatata | 120 | |
| atataatata aaatatataat aatatataat atatataata tataatatacat ataatatata | 180 | |
| atatataata tataatataat ataatatata atatataata tataatataat ataatatata | 240 | |
| atatataata tatataatata ataatatata atatataata tataaatata taaatataata | 300 | |
| tacacacata cacacacata tatgcatata tatacatata catgtgtaca tagata | 356 | |

<210> 196
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(321)
<223> MAR of chromosome 2 genomic contig; 5457330..5457650

| | | |
|---|-----|--|
| <400> 196 | | |
| tatacaatattt attataaattt atatataattt tataatataat atatattata tataaatttt | 60 | |
| atataattttt tataatataat aaatttatata taatataat tataatataat ttatataata | 120 | |
| tataaattttt atattatata aattaaatattt aattttatattt atatataat tataattttat | 180 | |
| ttatataata tataaattttt atttaattttt tataatataat aaattttatattt tttatataattt | 240 | |
| atgtataattt tataatatttt tacatataata cattataata tattgtatag tataatataat | 300 | |
| atatagtata tataaaggcat a | 321 | |

<210> 197
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(361)
<223> MAR of chromosome 2 genomic contig; 8124469..8124829

| | | |
|---|----|--|
| <400> 197 | | |
| tatataataat atatattata tatattatata aaatttatata taatatgtaa tataaattttt | 60 | |

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| | |
|---|-----|
| gtaatataaa ttatatatat aaattatata taatatatat taatatatat aatataaatt | 120 |
| aatatatata atatataatt atatataatt tatatgatat atataaatat atattatata | 180 |
| taaattatat atatcataaa ttatatatca tataaattat atataatata cattatgtac | 240 |
| ataatatatg atatataata tataatatat attatatata attatatata tataattata | 300 |
| taatatatat aaattataat atataatata tataaattat aatatataat atatataaat | 360 |
| t | 361 |

<210> 198
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(418)
<223> MAR of chromosome 2 genomic contig; 11151485..11151902

| | |
|---|-----|
| <400> 198 atgtaactat atatatagtat tatatactacta tatagtgtgt atatatagtat | 60 |
| tatataactat atatagtgtg tatatagtat atatatatag tgttatatac gtatatacac | 120 |
| tatatactat atatgttata tatagtatata gtagtatata tagtatata agtatagtat | 180 |
| atatagtata tatagtgtat atatactgta tatatagtgt acatagtata ctatatagtat | 240 |
| tacatatagt acactgtata gtatatatag tatagtatata atatataca tagtatacta | 300 |
| tatatagtat agtatacata gtatactata tagtatata agtataatata cagtatacta | 360 |
| tatagtatata agagtatata tacagtatac tatatcggt gtatagagta tatataca | 418 |

<210> 199
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(394)
<223> MAR of chromosome 2 genomic contig; 13591477..13591870

| | |
|--|-----|
| <400> 199 ttatatatat tttatataaa ttatatatat tttatataaa ttatatatat attatatata | 60 |
| tattatataat aattatataat aatataattat atatataatta tatataatta tatataatata | 120 |
| atattatata tattatataat ataataatata tataatataat atatttata tatgtattat | 180 |
| atatattttat tatatattat atatattata tatatatttt atatattatta tattttatata | 240 |
| atataatata acatataataa tatataatta tatattatata atatattata ttatataataa | 300 |

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| | |
|---|------|
| tatataattat atataatata atatataatt atatatatta tatattttat atatttat | 360 |
| aaaaattatt ttatattatt ttatataaa atat | 394 |
| | |
| <210> 200 | |
| <211> 1194 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(1194) | |
| <223> MAR of chromosome 2 genomic contig; 14996824..14998017 | |
| | |
| <400> 200 | |
| taatatttat atatacatat aaaatttata tataatatat aatatttata tatacatata | 60 |
| aaatttataat atatataaa tatttatata tacatataaa atttatatat aatataaat | 120 |
| atttatatat acatataaaa tttatataata atatataata tttatataata catataaaat | 180 |
| ttatataataa taaatattta tatatacata taaaatttat atataattta tatataacat | 240 |
| ataatattta tatataaaaat ttatataaa catatattta tatataattt atatataaca | 300 |
| tataatattt atatataata tatatttttata tatacaattt atatataata tataactt | 360 |
| atatacacat acataattta tatgatatat atttatata taatttat gatataataat | 420 |
| atatctaata tatatttat atattatata tatttatata aatttatata atatataatta | 480 |
| tatataataat ttatataata tatatattat atatataatt tatataatat atatattata | 540 |
| tatataattt atataatata tatttatata ataatttata taatatataat tatataatata | 600 |
| atttatataaa tatatattat atataattta tatataacat attttatata cataatataat | 660 |
| ttatataataa tatatattta catatacata tataattttt atataatata aaatattct | 720 |
| atatacatat ataattttta tataatataa aatatttcta tatacatata taatttttat | 780 |
| ataatatata tttctatata catgtctaat ttttatataa tatatatttc tatatacata | 840 |
| tataattttt atataatata taatattttt atatacataa tttttatata atatataattt | 900 |
| acatatacacat atataatttt tatataatat atatttatat atacatataat aatttttaca | 960 |
| taatatatat tatatataca tatataattt atatacaaca tataatatat acatataaa | 1020 |
| tttatataca acatataataa tttatgtata catatataat gtatacacaa tatataatat | 1080 |
| ttatatacacat atatataattt tatatgtataat atatacatat ataatttata tgtaatataat | 1140 |
| atacatgtat aatttatatg tagtatataat acatgtataa tttatatgtat gtat | 1194 |
| | |
| <210> 201 | |
| <211> 487 | |
| <212> DNA | |
| <213> Homo sapiens | |

<220>
 <221> misc_binding
 <222> (1)..(487)
 <223> MAR of chromosome 2 genomic contig; 14998429..14998915

| | |
|--|-----|
| <400> 201 | |
| tagtatacat ttacacatac atgtataatt atatgtaata tataatattt acatatataa | 60 |
| ttatagataa tatatatatta catatacata tataattata tataatatat aatgtttaca | 120 |
| tatacataca taatttatata taatatatat ttaaatatac atatacaatt atatataata | 180 |
| tatatttaca tatgcatata taattataga taatatatat ttacatatac atatataatt | 240 |
| atatataata tataatgtt acatatacat atataattat atataatata tatttaaata | 300 |
| tacatataca atttatata atatatattt acatatgcat atataattat agataatata | 360 |
| tatttacata tacatataata atttatata atatataata tttacatata cataatataat | 420 |
| gtatataaa tatataatat ttacatatac atatataatt tatataataat atatattata | 480 |
| tatatta | 487 |

<210> 202
 <211> 421
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <220> | |
| <221> misc_binding | |
| <222> (1)..(421) | |
| <223> MAR of chromosome 2 genomic contig; 16562490..16562910 | |
| <400> 202 | |
| tatataata tatataatgaa tatatacgta tatataata tatacatgta tgtatataatg | 60 |
| aatataatgta tatataatgaa tatataatgta tatataata tatgtatata tatgaatata | 120 |
| tatgtatata tgtatataata tgaatataata tgtatataatg tatataatg aatataatg | 180 |
| tatataatgta tatatgtata tatatacgta tatatgtata tatgaatata tatgaatata | 240 |
| tatgtatata tatgaatataata tgaatataata tgtgtatata tatgaatata tatgtatata | 300 |
| tatgaatataata tgtatataata tatgaatataata tatgtatata tgtatataatg aatataatg | 360 |
| tgtatataatgaa tatataatg aatataatg tgtatataatg tatataatgaa tatataatgtg | 420 |
| t | 421 |

<210> 203
 <211> 479
 <212> DNA
 <213> Homo sapiens

| | |
|--------------------|--|
| <220> | |
| <221> misc_binding | |

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<222> (1)..(479)

<223> MAR of chromosome 2 genomic contig; 21592301..21592779

| | | |
|--|-----|--|
| <400> 203 | | |
| tatatgtata cgtatataat atattatata ttatatacgt gtacgtatat atgtaatata | 60 | |
| taatgtatat gtacacgtat ataatatata atatattata tacgtatacg tatacattat | 120 | |
| atattacata tatacgtata tacgtatata aaatatatgt atatattata tatacgtata | 180 | |
| taatatataat tatataaatata cgtatacata taatataatta tatatacata | 240 | |
| ttatataatta tatatttaaa ttatataatta tatcatatat aatatataatg atataatata | 300 | |
| taatatacat atattacata atatatatta tatacatata catatataat atataatata | 360 | |
| ttatatacat atacatatat aatatataat atattata catatacata tataatataat | 420 | |
| aatatattat atacatatac atatataata tataatataat tatatacaca tattatata | 479 | |

<210> 204

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(870)

<223> MAR of chromosome 2 genomic contig; 22557584..22558453

| | | |
|--|-----|--|
| <400> 204 | | |
| tataatataat aatatacata atatgtatat tttatacaca atataaataa tatacataac | 60 | |
| atatatgtat attttatata tgtatattt atatataattt tatatatttt atatataatgt | 120 | |
| atattttata tataatataat atattgtata taataatata taatataatta tattatataat | 180 | |
| aatataatata atatataatata aatataatata tataatataat atgtataata tataatattt | 240 | |
| tataatataat atgtataata tataatttat atataataat atgtacaata tataatttat | 300 | |
| atataataat atgtacaata tataatttat atataataat atgtacaata tataatttat | 360 | |
| gtataatag tataatataat attttatgtta taatataat tttatgtata atatataattt | 420 | |
| tacgtatatt ttatataataa tatataatata tttatataata atatataaca tttatataat | 480 | |
| aatataataat atttatataata ttatataattt tataatataat atatataaaat atatataattt | 540 | |
| tataatataat atatttataata tataatataat ataaatataat atattatata taatataattt | 600 | |
| tataatataat atatttataata tataatataat aatataattt atatattata tataatataat | 660 | |
| tataatattat atataatataa ttatataataa tatataatata ataatatatt atatataata | 720 | |
| tataatataat aatataattat atataatataa taatataataa tatataatata atttatata | 780 | |
| atataataata tgtaatataat aatattttat atataatata taatataata tataatattt | 840 | |
| tataatataat atataatataa taatataataa | 870 | |

<210> 205
<211> 1086
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1086)
<223> MAR of chromosome 2 genomic contig; 30591960..30593045

| | |
|---|------|
| <400> 205 | |
| gtatatataa tataatttat attatgttat atattatgt aactatgtat taaatataatg | 60 |
| tataatttat atataaatat ataatatata ttataattt ataattataa atatattttat | 120 |
| aatatatttt tctaaatatt tatataattt atattatatc taatgtatata taataaataat | 180 |
| atttctaata tattttat ttataaatat ttatataata ttatataattt tatataact | 240 |
| atataattata tattataat ttatataata ctataatatta tatagtatat attttatata | 300 |
| tactataat tatataattt atatttata tatactatat attatataatt atatattttat | 360 |
| tatataactat atactatTTA ttatataattt tatataact atatactatt tattataat | 420 |
| tttatataata ctataacta tttatttat attttatata tactatata tatataattt | 480 |
| atattttata tataatataat atttattata tattttatata atttatata ttatataatta | 540 |
| tatattata tattatataa tatataattt atatagaata tataatataat atttatata | 600 |
| atataatata atataatatta tataaaatat atataatata taaaatataat aatataatgtat | 660 |
| atataataa tatattctat atttatacat atatatttaa tattatatta atatataatt | 720 |
| atataattatc atatgtatata atagatataa tatgtatata ataaattata atttatata | 780 |
| aatattataat attatttaat atgtatattt acacatataat taattattaa atatataat | 840 |
| ttaatataattt aaatattatg tattaaatata atataatata tttataaataa ttttatata | 900 |
| aatatataaca tatattaaca tatatgtata tatgtatata ttatataaa cattatata | 960 |
| attatgttac atatactata ttttatatgt tacatatact atatattata tgttacat | 1020 |
| aatatataata acatataatta taatatgtaa catattata ataacatata atatataat | 1080 |
| taata | 1086 |

<210> 206
<211> 406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(406)
<223> MAR of chromosome 2 genomic contig; 36233909..36234314

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<400> 206
attataaata tatattatag atattagata ttatagatat aatatatata atatatatta 60
tagatattat agatatagat ataatagata ttatagatat tatagatata atatatatta 120
tagatattat agatataata tatattatag atattataga tataatatat attatagata 180
ttatagatat aatatatatt atagatataa tatatattat agatattata gatatagata 240
ttatagatat tatatatatt atagatataa tatatattat agatattata gatatagata 300
ttatagatat aatatatatt atagatatta tagatataat atatattata gatattatag 360
ataataatata tattatagat ataagatata ttatagatat tacaga 406

<210> 207
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(797)
<223> MAR of chromosome 2 genomic contig; 36271745..36272541

<400> 207
atataaacat atacgtatat acacatatat acaaatacat atatacatat attatata 60
tgtatatata ttatattata catatattat atatatatta tattatacat atatacatac 120
acacataaac atattacata catatacaa ttatacacat atacatatat acatatatgt 180
atatacatac attatataata aatatatgtata tataaaatgt acattatata tacatata 240
ttatgtataa ataataatata aaataaacat aatataatt tatagatatg atataatata 300
tatataatgtata tacatataata catatatgtata tataatgt acattataca tacataaac 360
tcatatataa atgttatata tataatataa atataatataa tataatataat atacttata 420
tactatataat aatataatata atatgatata acatatacta tataactat atataatata 480
tactatataat actgtatata atatataata taatataac tataatatact aaatataata 540
tacataatat aatataact atatataata tataatataat aatatagtat atataactata 600
tataataatt acatattata tattatacat tataatattat ataattatta tataatatta 660
tatattacat actttgtata taatgtaaat atacattaga atatataatg tataatata 720
tacatataata atgtatataat gtatacatta tataaactat atataaacat tataatata 780
aacattata tataaac 797

<210> 208
<211> 423
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(423)
 <223> MAR of chromosome 2 genomic contig; 36498521..36498943

| | |
|---|-----|
| <400> 208 | |
| tattatatta tatatttaat attatatatt taatataatta tatatttaat attatatatt | 60 |
| taatataatta tatatttaat attatatatt taatataatta tatatttaat attatatata | 120 |
| taatataatta tatatttaat attatatata taatattata tatataatat tatatattta | 180 |
| atattatata tataatatta tatatataat atattatata tttagtatta tgtatttaat | 240 |
| atattatata tttagtatta tgtatttaat atattattta tttagtatta tatatttaat | 300 |
| atattattta tttagtatta tatatttaat atattatata tttaatatat tatatattta | 360 |
| ttatatattg tatatttaat atattatata ttatttatat attatata attatataatt | 420 |
| taa | 423 |

<210> 209
 <211> 304
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(304)
 <223> MAR of chromosome 2 genomic contig; 37179891..37180194

| | |
|---|-----|
| <400> 209 | |
| tggtatatat atcatatata ttatatcata tatatgtgt tatatatcat atattatatc | 60 |
| atatatatgt gtatatatat catatata tcataatgt gtatatatca tatatattat | 120 |
| atatcatata tgtgtatata tatcatatata tatatatcat atatatgtgt atatatcata | 180 |
| tatattatat atatctcata tgtgtatata tatcatatata aatatataatg tgtatatatc | 240 |
| atatatcata tataacatata atatgtgtat atatcatata tataacatata atcatatatg | 300 |
| tgta | 304 |

<210> 210
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(693)
 <223> MAR of chromosome 2 genomic contig; 38440448..38441140

| | |
|---|-----|
| <400> 210 | |
| tatatatattct ttatataatt atatataata tatattcttt tatatattat atatagtata | 60 |
| tattctttta tatattatata atagtatata ttctttata tattatata agtataattt | 120 |

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| | |
|---|-----|
| cttttatata ttatataatag tatataattct tttatatatt atatataatgtatattcttt | 180 |
| tatataattat atatagtata tattctttta tatattatata atataatata tattctttta | 240 |
| tatatacatat ataataatata ttctttata tattatataat aatataatatt ctttatata | 300 |
| ttatataatca tgtatataata atataaaaaa tatataataga ttttatataat agattattac | 360 |
| ataatagaat atattatata ttatataaa tatatacata atatataata ttatataatga | 420 |
| tataatataat atcatatata tcataataa tatattatata atcatatatt atatataata | 480 |
| atataatagat tatataataat tatataatata atataatataa ttatataatata tatctatata | 540 |
| tagataatata atataattat atataatata ttatataatgtatataat tatattatata | 600 |
| acaaaatcta tatataatata atattatatt atatataata tacataacta tataaaaaat | 660 |
| ataatataatata atatataatataa tatataatataat ata | 693 |

<210> 211
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(471)
<223> MAR of chromosome 2 genomic contig; 38887582..38888052

| | |
|---|-----|
| <400> 211 aacatataata ctatataatata tatataactat attatataatt atataatataa acatataatac | 60 |
| tatataataat atataaacat attatattat acatgatata gataaacata tatattatata | 120 |
| ataataataga taaaatatgt tatataataat ataatgtata gacatataatt atataacat | 180 |
| atattctaca tatattatata atatattcta cacatattat attatataata catatattct | 240 |
| acatataatta tatatacata tattctacat atattataata tacatataatt ctacatatac | 300 |
| atataacat atattataata tacatataatt atagatataat aatataaaaa cataataataat | 360 |
| attattatata atataatataata taataatataata taataatataatt atatcttata | 420 |
| tataaataat atataatattt tatataatata atattataata tatataatataat a | 471 |

<210> 212
<211> 1221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1221)
<223> MAR of chromosome 2 genomic contig; 43885944..43887164

<400> 212

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| | |
|---|------|
| catataaaca tatatttatat gtaacatata aacatattat atgtaacata taatataaa | 60 |
| tatataaaca tatattttat atattatatg ttacatataa tatataatat ataaacatat | 120 |
| attatatatt atatgtaca tataatataat aatataaaa catatattt atatataata | 180 |
| tataaacata ttttatataat aatataaaa catatttat atataatata taaacatata | 240 |
| ttttatataat aatataaaa catatttat atataatata taaacatata ttttatataa | 300 |
| tatataaaca tataatataat ataataatata aaagtatata atataaatat atataatata | 360 |
| aacatataata atataaataat atataaaaata taaacatatg taatataaa acatataatta | 420 |
| tatataatata ataaacatat attatacgta caatataaa acatatattg tacgtacaat | 480 |
| atataaacat atattatacg tacaatataat aaacatataat tatacgta atatataaac | 540 |
| atatattata cgtacaatat ataaacatat attatacgta caatataaa acatataatta | 600 |
| tacgtacaat atataaacat atattatacg tacaatataat aaacatataat tatacgta | 660 |
| atatataaac atatattata cgtacaatat ataaacatat attatacgta caataaacat | 720 |
| atattatacg tacaatataat aaacatataat tatacgta atatataaac atatattata | 780 |
| cgtacaatat ataaacatat attgtacgtca caatataaa acatatatta tatgtataat | 840 |
| atataaacat ataataatata atatattata tatatatgtt tattatataat gtttatata | 900 |
| tatataataac atatattatt atattatata tgtttatata ttatataatta tataatataat | 960 |
| atgtttatata attatattatt atataatata tatgtttata tattatataat tatataatata | 1020 |
| atatgtttat atattatata ttatataata tatatgtttatataattatatt attatataat | 1080 |
| atatatgttt atatattata tattatataa tatatatgtt tatatattat atattatata | 1140 |
| atatataatgt ttatataatta tatattatata aatataatg ttttatattt atataaataa | 1200 |
| taaaacttaca tattttatta a | 1221 |

<210> 213
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(543)
 <223> MAR of chromosome 2 genomic contig; 45818200..45818742

<400> 213
 tatgtatata tacatataata tttatacatg tatatatgtatata tacatataata tatatttata
 catgtatata tatacatata tatttataca tgtatataata tacatataata tttatacatg
 tatatatata catatatatttata tacatgtatata tgtatataata catatatatttata tacatgtatata
 tgtatataata catatatatttata tacatgtatata tgtatataata catatatatttata tacatgtatata

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| | |
|---|-----|
| tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta | 300 |
| tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta | 360 |
| tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta | 420 |
| tgtatatata catgtatatt tatacatgta tgtatatata catgtatatt tatacatgta | 480 |
| tgtatatata catgtatatt tatacatgta tgtatatata catgtatatt tatacatgta | 540 |
| tac | 543 |

<210> 214
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(463)
<223> MAR of chromosome 2 genomic contig; 47055478..47055940

| | |
|--|-----|
| <400> 214 atacatacat atatacatat atacacatat atacatataa tacacacata tttacatata | 60 |
| tacacacata tatacatata tacatatata cacatatata catgcataca catatataca | 120 |
| tatatacaca catatacaca catatataca tatatacaca tatatacaca tatacacata | 180 |
| tatacacaca tatacatata tacacatata tacatatata catatataca cacatataca | 240 |
| catatataca tatacacata tatacatata tacatatata cacatatata cacatata | 300 |
| catatataca catatataca tatatacaca tatatacaca catatacaca tatatacata | 360 |
| tatacatatg tatacacata tatacatatg tatacacata tatacacata tacatata | 420 |
| catacacata tatacgata tatgtgtata tatacacata tac | 463 |

<210> 215
<211> 2482
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(2482)
<223> MAR of chromosome 2 genomic contig; 47492696..47495177

| | |
|--|-----|
| <400> 215 aatatatata aaatatatta tattctatgt aatatataga atatataaaa tatattctat | 60 |
| atattatata gaatatatat tttataat atattatttata tatattttta tatattttata | 120 |
| ttattttat atttatata aatttatata atttatacat ataatttata tataattttat | 180 |
| ataaaattata tatataattt atatataatt tataatataat ttatataaat tatataatata | 240 |
| atttatataat aatttatatg attttatata atttatacat tataattttat ataattttta | 300 |

| | |
|--------------|------|
| tatataat | 360 |
| aatttatata | 420 |
| atatataatt | 480 |
| atttatatat | 540 |
| tatataat | 600 |
| atataatttata | 660 |
| tttataattt | 720 |
| tatattata | 780 |
| ttacatataa | 840 |
| aattttac | 900 |
| ataaaatata | 960 |
| tatattttac | 1020 |
| atatatataa | 1080 |
| aatatatatg | 1140 |
| atataatata | 1200 |
| atatctatct | 1260 |
| atactttat | 1320 |
| tatattatata | 1380 |
| atataaaatg | 1440 |
| tttattttat | 1500 |
| tatataat | 1560 |
| atatgtatat | 1620 |
| attatataat | 1680 |
| ataattttat | 1740 |
| tatattatata | 1800 |
| atataatag | 1860 |
| tttatattat | 1920 |
| tatataat | 1980 |
| aatgtatat | 2040 |
| atattatata | 2100 |
| tgtatattat | 2160 |

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| | |
|---|------|
| atattatata taatgtatat tatataaatat atattatata ttataatata taatatacat | 2220 |
| tatatattac atattatata taatatatta tatattatatt attacatatt atatataata | 2280 |
| tattatatat tatattaaat atatattttat tatattatatt attatatatt atataaaata | 2340 |
| tatatattat atattatata aaatatataat atattatatt atatattata ttaaatatat | 2400 |
| attttatata taatatataat aatatataat atataaaata tatattatatt attatata | 2460 |
| aattatatat attatataaa aa | 2482 |

<210> 216
<211> 539
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(539)
<223> MAR of chromosome 2 genomic contig; 47561069..47561607

| | |
|---|-----|
| <400> 216 aacagtaata tatcactaat atataataat atataacagt aatatatcat taatataaa | 60 |
| tatatcatta gtatataata ttaatatata ttaatataata atatatcata tacaatatta | 120 |
| atatatatta atatataata atatattatt aatgtataat agtaatataa tatattatca | 180 |
| atatatatta ctaatatata ataatatatc gttaatataat aatagatcat taatataaa | 240 |
| tgttaatata ttatgaatag ataatatatc agtataatata attaataatata taatata | 300 |
| tatattatTT aataatataat aatatattaa taaaataatata tatattaata tagcaatata | 360 |
| ttaatatatg actgtattat attattaata tataacaata tattatataat tatataataa | 420 |
| tttattatata aatatataat aatatattat atattatata acatattaat aatacataat | 480 |
| aacattaata atatataata atgttaatata attattatata tatatattaa tatataata | 539 |

<210> 217
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(336)
<223> MAR of chromosome 2 genomic contig; 52853648..52853983

| | |
|--|-----|
| <400> 217 tatatacata aaatataatata attttatata tatacataat atatataatgt atatTTATG | 60 |
| tatatatcta taatataatata aatataataa aatatacata tatattttat atatataataa | 120 |
| tatacatata aaatatacat acataaaata tacatgtata tttatgtat atataatata | 180 |
| tatataaaat atacatgtat attttatata tataatatac atgtataatt aatatacatg | 240 |

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| | |
|---|-----|
| tatgttatat atattacatg tatattatat ataatacaca tataaatttt aaatttagtg | 300 |
| tatattacat gtatattata tataatatat gtatat | 336 |

<210> 218
<211> 406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(406)
<223> MAR of chromosome 2 genomic contig; 54866263..54866668

| | |
|---|-----|
| <400> 218 | |
| tacgtatata aaaatgtata tttacatata taaaataaat attttatata cgtatataaa | 60 |
| atatatattt attttatata cgtatataaa atatttattt tatatatgtt tataaaatat | 120 |
| ttattttata tacatgtata ttaaatatat atttatatat gtatataaaa atatatatta | 180 |
| tatacatgtt tataaaatat atattatata tgtatataaa aatatatatg tatataaaat | 240 |
| atatatatta tatagatata taaaatatat atttataga tatataaaat atatatatta | 300 |
| tatagatata taaaatatat atattatata gatatataaa atatatatat tatatagata | 360 |
| tataaaatat atatattata tagatatata aaatatatat attata | 406 |

<210> 219
<211> 1452
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1452)
<223> MAR of chromosome 2 genomic contig; 55113305..55114756

| | |
|---|-----|
| <400> 219 | |
| ataatatata atatatattt tatattatata tattatataat tatatattat taaatatata | 60 |
| tattatatta tatattatata aatatatattt atatataata atatagaata tataattata | 120 |
| tattatatta tatattatata aatatatattt atatataata atatagaata tataattata | 180 |
| tattatacta tatattatata aatatatattt atatataata atatagaata tataattata | 240 |
| tattatataa tatgtgaata atgtatata taattatattt atttacatata tatataatata | 300 |
| ataattatata tatataatata atattatata tatttgtata ttatataata catatacatt | 360 |
| atattatata taatataattt atatataattt aattataatata taattatata taattatata | 420 |
| atataatata taatatacat aatataatata atataataca taatatacat aatataatata | 480 |
| atattatata taatataata taatataatata aatataatata aatgtataat atattatata | 540 |

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| | |
|--|------|
| attatatata atatataatg ttatataatt atattatatt atataattaa ttatatgtaa | 600 |
| ttaatataat ataattatta tatataattt tttatataat ataatatata attatataat | 660 |
| ataatataat tatattatat tatataatat atatatatta tataatataa tataattata | 720 |
| ttatataatt atataatata atataattat atattatatt atataataaa tataattata | 780 |
| taatataata tgattatata atatattatg tatattatatt attatatatt gtattatgt | 840 |
| tattatatat tatatattat gtatattata tattatgtat attatatatt atgtatatta | 900 |
| tatattatatt attatattat gtataatata ttatgtatgt tatatataat ataaattata | 960 |
| ttatatatta tgtatattat atataaatta tattatatat tatgtatatt atatataata | 1020 |
| taaagtatat attatgtata ttatataaa taaaagtgat atattatgtat tattatatat | 1080 |
| aatataaagt atatattatg tatattatatt ataataaaa gtatatatta tgtatattat | 1140 |
| atataatata aagtatatat tatgtatatt atatataata taaagtatatt attatgtata | 1200 |
| ttatataaa taaaagtgat atattatgtat tattatatat aatataaagt atatattatg | 1260 |
| tatattatatt ataataaaa gtatatatta tgtatattat atataatata aagtatatatt | 1320 |
| tatgtatatt atatataata taaagtatatt attatgtata ttatataaa taaaagtgat | 1380 |
| atattatgtat tattatatat aatataaagt atatattata tggtaataat tatatattgt | 1440 |
| tatatattat at | 1452 |

<210> 220
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(502)
<223> MAR of chromosome 2 genomic contig; 56350637..56351138

| | |
|--|-----|
| <400> 220 atataattata gaaatataaa tatatagata tatctatata ttatagaaat ataaatataat | 60 |
| agatatatct atatattata gaaatataaa tatatagata tatctatata ttatagaaat | 120 |
| ataaaatataat agatataacct atatattata gaaatataaa tatatagata tacctatata | 180 |
| ttatagaaat ataaatataat agatataacct atatattata gaaatataaa tatatagata | 240 |
| tatctatata ttatagaaat ataaatataat agatatatct atatattata gaaatataaa | 300 |
| tatatagata tatctatata ttatagaaat ataaatataat agatatatct atatattata | 360 |
| gaaatataaa tatatagata tatctatata ttatagaaat ataaatataat agatataaac | 420 |
| aacatatatg ttacatatta tatattatat atctatataat ctatataaca ttatataatct | 480 |
| atatatctat ataacatata ta | 502 |

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<210> 221
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(794)
<223> MAR of chromosome 2 genomic contig; 57051633..57052426

| | |
|---|-----|
| <400> 221 | |
| aactatatat actatattat atagttatac tataatact atattatata gttatataac | 60 |
| tattatataa ctgtattata tagttatata actattatat aactgtatta tatagttata | 120 |
| taactattat ataactgtat tatatagtta tataactata ttatataact gtgttatata | 180 |
| gttataattat atataactat attatataac tgtattatat agttatata tatataacta | 240 |
| tattatataa ctgtattata tagttatata ttatataact atattatata actgtattat | 300 |
| atagttatatt attatataac tgtattatat agttataaaa ctatattata taactgtatt | 360 |
| atatagttat aaaactacta tataactgta ttatataatt ataaaattat actatataac | 420 |
| tgtattatat agttataaaa ctatactata taactgtatt atatagttat aaaactatac | 480 |
| tatataactg tattatatacg ttataaagct atactatata actgtattat atagttatatt | 540 |
| aactataacta tataactgta ttatatagtt ataaaactat actatataac tgtattatat | 600 |
| agttataaaa ttatattata taactgtatt atatagttat ataactatata tatataactg | 660 |
| tattatatacg ttatataact atattatata agtgtattat atagttatata aactatatta | 720 |
| tataactgta ttatacagtt atataactat attatataac tgtattatata acttataaa | 780 |
| ctatattata taac | 794 |

<210> 222
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(300)
<223> MAR of chromosome 2 genomic contig; 57069272..57069571

| | |
|---|-----|
| <400> 222 | |
| acacatacat atatgttat atgcacacac atatatatgt atatatacac atacatatat | 60 |
| gtatataac atatatgtat atacgcacat acatatatgt atatatacac gtacatatat | 120 |
| gtctcttat atacacatac acatatgtat atacatatat gtgttatatac acacaatcat | 180 |
| atatgttat atatatacac acatatacac aaacatatat gtatatacat atatgttat | 240 |
| acatatacac acatatacac aaacatatat gtatatacat atatgttat acatacacaa | 300 |

<210> 223
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(370)
<223> MAR of chromosome 2 genomic contig; 57235143..57235512

| | | |
|---|-----|--|
| <400> 223 | | |
| tatTTTata tataactata tatATTTat atataaatta tatATATGAT catATATA | 60 | |
| atCATATATA taATCATATA tgATTATATA tgATCATATA tatATTATA tatATAATT | 120 | |
| tATATACtTA tatATAATTAT tatATATATA ATTATGTATA cTTATATA | 180 | |
| tttATATATA taATTATATA tacaATTtAT atATATAATT atATATAATT tatATATAAT | 240 | |
| tATATATATA aATTATATAT aAGTATATAT aATTATATAT ATGTTTATAT ATAATTATAT | 300 | |
| atATAAATGA tatGTATAAT atATAACTAT atATAATTAT atATAAATAT atATATAGAT | 360 | |
| tttATATATA | 370 | |

<210> 224
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(306)
<223> MAR of chromosome 2 genomic contig; 57693125..57693430

| | | |
|---|-----|--|
| <400> 224 | | |
| taCGTATATA cacGTATAAA tataAATATA tacATGTATA tacGTATATA catGTATAAA | 60 | |
| tataAATATA tatATGTATA tacGTATATA catGTATAAA tatATATATG tatATACGTA | 120 | |
| tataCATGTA taaATATATA tatATGTATA tacGTATATA catGTATAAA tatATATACA | 180 | |
| tGTATATACG tatGTTGTGT atACATACAA atCTGTACAT atATACATAT atGTTGTGTG | 240 | |
| tataATACa tCTATACATG tGTATCGTA tatATGTATA tGTATATATA gtATATATAA | 300 | |
| tacATG | 306 | |

<210> 225
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(500)

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<223> MAR of chromosome 2 genomic contig; 59810331..59810830

<400> 225
tttattatat gtaatata ttgttattatt atatatatta tatataaatat atattgtatt 60
attatatata ttatataaa tatatattgt attattatat atattatata taatataat 120
tgtattatta tatatattat atataatata tattgtatat tatatatatt atatattata 180
ttattatata ttatataat tatattatta tatattatatt attatataata ttatattata 240
tattatataat tatattatatt atattatatt atatattata tattatatta tatatattat 300
attatataatt atatattata ttatataat tatattatatt atattatata ttatataat 360
tatatattat atattatata ttatataat tatatattat atataatata tattatatta 420
ttatataata ttatataat tatatattat atattatata taatataat tatattatta 480
tataatatta tatattatat 500

<210> 226
<211> 565
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(565)
<223> MAR of chromosome 2 genomic contig; 59974589..59975153

<400> 226
atatatgtat aatatgtata tatgtatata ttatgtatat gttatataatg taatataatgt 60
atgtatataat tatatatcat atataatata taatgtgtat atatgtatat atgtatgtat 120
acatgtatat actatgtata tattgtatat attatataatg tatataataca tatacatata 180
taatataatca atatattata tacaatataat acatgtatat tatatacgat atatacatat 240
atattatata caatatataac atagtatata aatgtataca tacatacata tatacatatt 300
atatatgtat atatgtatatac ataaatgtat atataatata tatacatata taaatgtata 360
catacgta tatacgta tttatgtatgc tatatgtata tatgtgcata catatataatg 420
tatatacata tatgtacata tgtacatata cgtatataatg tacatatgtat catatacgta 480
tatatgtaca tatgtacata tacgtatata tgtacatata tatacatatacg tataatgtat 540
catatgtaca tatatacata tataat 565

<210> 227
<211> 427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding

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<222> (1)..(427)

<223> MAR of chromosome 2 genomic contig; 60605573..60605999

<400> 227

| | |
|---|-----|
| tatataatgt atataatgga tatagatata gatatagata tatattttat ataatatata | 60 |
| ttatatatta tatataatat atgttatata tattatatat tttatataat atatatatta | 120 |
| tataaattat atatatataa tatataatat atatattata tatattttat ataatatata | 180 |
| tttaatatta tctattatat attttata atatatttt tatataatat ataatatata | 240 |
| atatatattt tacataatat ataatatata atacgttata tatataatat ataatacgta | 300 |
| ttttatataa tatataatac gtattatata taatacgta tatatattat ataatatata | 360 |
| atacgttata tataatatac gtaattatata tttattataa tacgttattat atattatata | 420 |
| atatata | 427 |

<210> 228

<211> 1199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1199)

<223> MAR of chromosome 2 genomic contig; 61229949..61231147

<400> 228

| | |
|---|-----|
| gtatacatat ataaagtgtat tatataatgt atatacatat atacatatat aaagtatata | 60 |
| tataatatat acatatataa agtatatata taatatacac atatataaag tataatataat | 120 |
| atatacatat ataaagtata tataatatat acatatataa agtatatata tcatacatac | 180 |
| atatataaag tatataatata atatacatat ataaagtata tataacatat | 240 |
| atacatatat aaagtatata taacatatat acatatataa agtatatata taatatacac | 300 |
| atatacatat atataaagta tatataacat atatacatat atacagtata tataacatat | 360 |
| atacatatat acagtatata taacatatat acatatatac agtatatata acatatatac | 420 |
| atatacatat acatatatatac atatacatat atatacatatga agtatatata acatatatac | 480 |
| atatacatat gaagtatata taacatatat acatatatac atgaagtata tataacatat | 540 |
| atacatatat acatgaagta tatataacat atatacatat atacatatat aaagtatata | 600 |
| taacatatac atatacatat atataaagta taacatatac atatacatat atataaagta | 660 |
| tatataatat ataacatata catatataaa gtatataaa tatataacat atacatatat | 720 |
| aaagtatata taatataataa catatacata tataaagtat atataatata tacatata | 780 |
| catatataaaa gtatataaa tatataatata catatataaa gtatataaa tatataatatac | 840 |
| tatatacata tataaagtat atataatata tatacatata taaagtatata atataatata | 900 |

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| | |
|--|------|
| tacatatata catatataaa gtatatataa tataatataca tatatacata tataaagtat | 960 |
| atataatata tatacatata tacatatata aagtatata aatatatata catatataca | 1020 |
| tatataaagt atatataata tatatacata tatacatata taaagtatat ataatatata | 1080 |
| tacatatata catatataaa gtatatataa tatgtatata tatatacata tataaagtat | 1140 |
| atataatatg tatacatata tacatatata aagtatata ataatatatgta tacatata | 1199 |

<210> 229
<211> 454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(454)
<223> MAR of chromosome 2 genomic contig; 62181058..62181511

| | |
|--|-----|
| <400> 229 | |
| tatatatcat atattatata tgatatatat tatgtatata atacatatta tatataataa | 60 |
| atatttatta tatatgatat atattatgtatata tataatacat atttatata ataaatatat | 120 |
| atttatattat atataataaa tatatattat atttatata atatatattt atatataaaat | 180 |
| atattatata taaatatata ttatataaa aatatttata tattatataat aaatatataat | 240 |
| tatataaaa tatttatata ttatataaa atatttat atttatata aatatttata | 300 |
| tatttatataat aaaatatatt atatatatta tatatattat atattatata taatatattt | 360 |
| aatataataat atataaacat atattatata taatataaa acatataaa atatatttat | 420 |
| atataataga taaaaatata tataatataat ataa | 454 |

<210> 230
<211> 658
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(658)
<223> MAR of chromosome 2 genomic contig; 62190919..62191576

| | |
|--|-----|
| <400> 230 | |
| tatatacaca actatatata taactatata tatacaacta tatatacaac tatatatata | 60 |
| actatatata taactatata taactatata tataactata tataactata tatataacta | 120 |
| tatatataac tatatataac tatatataata actatatata actatatata actatatata | 180 |
| taactatata tataactata tataactata tataatataac tatatataact atatataaa | 240 |
| ctatatataat ataactatat atataactat atatataaa ctatataaa ctatataat | 300 |
| ataactatat atataactat atatataaa ctatataat aactatataat atataactat | 360 |

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| | |
|--|-----|
| atataataact atatatatat aactatatat aactatatat atataactat atatataact | 420 |
| atatatatat aactatatat ataactatat atatataact atatatataa ctatatatat | 480 |
| ataactatat atataactat atatataact atatatataa ctatatatat ataactatat | 540 |
| atataactat atatatataa ctatatatat aactatatat ataactatat atataactat | 600 |
| atatatataa ctatatatat aactatatat atataactat atatataact atatatat | 658 |

<210> 231
<211> 1486
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1486)
<223> MAR of chromosome 2 genomic contig; 62384127..62385612

| | |
|---|------|
| <400> 231 | |
| attatatcta atctattata tattatatct aatacatatt atatctaattc tattgttat | 60 |
| tatatactaat atataatata ttatataataa tatattatatt attatataatt atatacaata | 120 |
| tattatatat tatataatatt ataataatatt atatataataa tattatatct aataattttac | 180 |
| atattatatac taatcttta tagatataat atgtaatata ttatataatta tatctaataag | 240 |
| atattagata taatataataa tatattatta atataatata tttagatataa tatataatata | 300 |
| aataatataat aatataatatt attggtaata tataatataat aattaataat atatattata | 360 |
| tataattttt atgaataataa tatcatatat aataatctgt atattatata ttaataacat | 420 |
| ataaaatatta tattaataat aaataacata ttaatattat attaataataa tataatatac | 480 |
| taatattata ttaataataat ataataactat aatattatata taataatata taatatacta | 540 |
| atattatatt aataatataat aatatactaa tattatatta ataataatata atataactaat | 600 |
| attatattaa taatataataa tatactaata tattaagaat atataatata ctaatatatt | 660 |
| aagaatataat aatatactaa tattatatta ataataatata ttttatattaa taatataatta | 720 |
| attattatta attaattatt aataattata taatatttgat tatattaata ttatcaattt | 780 |
| aataatattt attatattatt atatattata tattatataat tatattattat atattatata | 840 |
| ttatataatta ataataatata tttagatataa tataatataat taataatata taagatataa | 900 |
| tataatataat taataatata tattagatat aatataatata attaataataa tatatttagat | 960 |
| ataatataat atattaataa tataatattag atataatata atatattaat aatataatatt | 1020 |
| agatgtata taatataatta ataataatata tttagatgtaa tataatataat taataatata | 1080 |
| tattagatgt aatataatata attaataataa tatatttagat gtaatataat atattaataa | 1140 |
| tataatattag atgtaatata atatattaat aatataatatt agatgtata taatataatta | 1200 |

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| | |
|--|------|
| ataatatata ttagatgtaa tataatatata taatatataat tagatgtaat ataatatattt | 1260 |
| aataatatat attagatata atataatata ttaataatata attagatata atataatata | 1320 |
| ttaataatata ataagatata atataatata ttaataatata ataagatata atataatata | 1380 |
| ttaataatata ataagatata atataatata ttaataatata atattagata tataatataat | 1440 |
| taataatata tattagatat ctaatatcta tttagatctc aataga | 1486 |

<210> 232
<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(333)
<223> MAR of chromosome 2 genomic contig; 62538649..62538981

| | |
|---|-----|
| <400> 232 ttatatatata tatatatata tattttatata atatattata tatatatttt atatatatata | 60 |
| tatatatata ttttatata atattatata tatattttat atatatatta tatatatatt | 120 |
| ttatatatata tatatatata ttttatata attatatata tattttatata atatattata | 180 |
| tatatatttt atatatatata tatatatata ttttatata atattatata tatatttat | 240 |
| atatatatta tatatatatt ttatatatata attatatata tattttatata atatattata | 300 |
| tatatatttt atatatatata tatatatata ttt | 333 |

<210> 233
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(480)
<223> MAR of chromosome 2 genomic contig; 63240325..63240804

| | |
|--|-----|
| <400> 233 tatatataaa atatatattt tttaaatata aaatatata atatttat attaatatata | 60 |
| atatatttttta atatataata tatatattat atatttata tataaaatata atatattata | 120 |
| tattttatata ataaaatata tatattatata attttatata ttaaaatata tattttatata | 180 |
| attttaatta ttaaaatata tatattatata attttaata taaaatata atattatata | 240 |
| ttttaatata taaaatataat atattatata tttaatata taaaatataat atattttata | 300 |
| tttataatata taaaatataat tattatataat tttaatataat aaaatataat tattatataat | 360 |
| tttaatataat aaaatataatata tattatataat tttaatataat aaaatataatata tattatataat | 420 |

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ttaaatatat ataaaatata tatattatat attttatata tattaaatat atatttata 480

<210> 234
<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(302)
<223> MAR of chromosome 2 genomic contig; 63935480..63935781

<400> 234
atatatataa atatatatat aattatatat agatatatat aattatatat agatatatat 60
attctatatt ctatatatat ataatatata atatataat tatatataga atatatatta 120
tatataatat atttatataa ttatataaa tatatatatt atatatatta tatataatat 180
atatattata tatattatat ataattata tatattatat atagaatata tattatatat 240
agaatataga atatataaa tatatataga atacagaata tatatagaat atagaatata 300
ta 302

<210> 235
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(407)
<223> MAR of chromosome 2 genomic contig; 63935888..63936294

<400> 235
tataatatat taatataata tatagacagt atataatata atatacagac agtatataat 60
atacagacag tatataatat ataattattat atataatatt atatataata ttatataata 120
tattatatta tatatattat ataatatatt atattatata taatatatgt aatattatat 180
attatattat acataatata ttatataaa tatattatata ataattattat atatattata 240
tataatatat ataataataa tattataata tataatatat aatagtacag tatatattat 300
atatataatt ctatataaa tatatagaat tctatctatt tataatatat atagaattct 360
atatataata tataatataac agaattctat atatattata tatagaa 407

<210> 236
<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding

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<222> (1)..(302)

<223> MAR of chromosome 2 genomic contig; 66958350..66958651

<400> 236

| | |
|---|-----|
| tattatatat attgtatata tatgtatatt atatatattg tataataat gtatattata | 60 |
| tatattatat atatatgtat attatatata ttgtatatat atgtatatta tataatttgt | 120 |
| ataatatgtat atgtatatat gtatgttat atatacacac atatacacat atatgtgtat | 180 |
| gtatatatat gtgtgtatat acgtatatat acatataac aattttgtat tataacata | 240 |
| tatacacata tataatgtat tatacataca tatacataca tatacataca tatacaca | 300 |
| ta | 302 |

<210> 237

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(651)

<223> MAR of chromosome 2 genomic contig; 68307125..68307775

<400> 237

| | |
|--|-----|
| gatattatat attgtatata ttatatatgt atataatata ctattatata ttatatatgt | 60 |
| atataatttt attaatatat atattatattt atattatata ttatattata ttatattata | 120 |
| tatataatata taatattata tattattata tattatatta tattaatattt atatataatata | 180 |
| aatataatata atatataaa tagtattata tataatataat ataatagtat tataatattat | 240 |
| atataatataa tactattata tatattatata ataatagtat tataatattt atataatataa | 300 |
| tactattata tataatataat actattataat aatataatata atactattat atataattata | 360 |
| tataataacta ttatataataa tataatataat actattataat ataataatata taataactatt | 420 |
| atataataata tataataatatac tattatataat aatataatata atactattat atataatata | 480 |
| tataataacta ttatataataa tataatataattt atatataattt atattaatata ataatagtat | 540 |
| catatataat aatagtatata ataatatata atatataatata tataatataattt ataatagtat | 600 |
| atataacata taatataatata tataatattat atattatata taaaatattt a | 651 |

<210> 238

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(367)

<223> MAR of chromosome 2 genomic contig; 68308243..68308609

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<400> 238
ataatatatat atgagtcaac catacacata tataatatata atgtttat atataatgtat 60
tataatataat gtttatatat aatgtatata tataatgttt atatatataa tgttatata 120
taatgtttat atatataatg tataatatata atgtttat atataatgtg tataatataat 180
gtttatatat ataatgtgta tataatgtt ttatataataa tgtgtatata taatgtttat 240
ataatataatg tgttatata atgtttat atataatgtg tataatataat gtttatataat 300
ataatgtgta tataatataat gtttatataat ataatgtgta tataatataat gtttatataat 360
ataatgt 367

<210> 239
<211> 499
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(499)
<223> MAR of chromosome 2 genomic contig; 410241..410739

<400> 239
ataatatgtat tataatttat atttatattt atattacata ttatataatta tattacatat 60
tataattttat tatattacat atttatattt atattttata ttatataatta tatcatatat 120
atgttatgca ttatataata cataatatat tataatgtat ataatataata ttatataatta 180
ttatataataa tataattaat atattatgtat ttatataata tataattatgt tataatataat 240
aatatataattt atataattat atttatattt atgttattata taatataat tatgttataa 300
tatattatattt tataatataat tataatataat atgtatatta tatataataac 360
ataatataattt atatattata tattattttata tataatataat tataatgtt gatattattt 420
ataatataattt atataacata gtatattata taatataat tataatgtaa tatattatattt 480
attatataat atattgtat 499

<210> 240
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(402)
<223> MAR of chromosome 2 genomic contig; 31531..31932

<400> 240
cacattatatacataataaacat tataatatacacattatatacataataaacat tataatataat 60
cacattatatacataataaacat tataatatacaca cattatataatataaacat tataacaca 120

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| | |
|--|-----|
| ttatatatat aaacattata tatacaaatt atatatataa acattatata tacaaattat | 180 |
| atataataaac attatatata tacattatat atataaacat tatatatata cattatata | 240 |
| ataaacatta tatatataca ttatatatat aaacattata tatatacatt atatatataa | 300 |
| acattatata tatacattat atatataaac gttatatata tacattatat atataaacat | 360 |
| tatatgtata cattatatat ataaacatta tatatatatg tg | 402 |
| | |
| <210> 241 | |
| <211> 421 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> misc_binding | |
| <222> (1)..(421) | |
| <223> MAR of chromosome 2 genomic contig; 32415..32835 | |
| | |
| <400> 241 | |
| ataaatattt tatatatata atataatata tatactatat tatatgttat atatactatt | 60 |
| ataatataata taatatatat attatatatt atatatacta ttattatata tgatactatt | 120 |
| atatattaat ataattatat ataatatata tattatataa tatactatta tatattatat | 180 |
| ataatagtat attatataat atatataatta tatataatag tattatatat actattatat | 240 |
| attatatata ttatatatat ataaaatata atataatata tataatatat aatattaata | 300 |
| ttatatatat aatataatata aatatataat ataatataat atatatatta ataaaattat | 360 |
| attaatatat aatatataat agtatattat atacatatat aatatataca atatataata | 420 |
| t | 421 |